CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS.
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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(* denotes that this work is advertised in *Engineering News*.)

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work. Place.	See issue.
4-17*	Dredging, Detroit, Mich.....(S.)	3-19
4-17*	Breakwater, Boston, Mass...(S.)	3-19
4-17*	Pumping engine, White Plains, N. Y. ....(S.)	4- 2
4-20*	Pier, dredging, Milwaukee, Wis. ....(S.)	3-26
4-20	Pipe sewers, Washington, D. C. ....(S.)	4-16
4-22*	Sewers, Philadelphia, Pa. (P. & S.)	4-16
4-22*	Bridges, Philadelphia, Pa.....(P. & S.)	4-16
4-29*	Sewer, Louisville, Ky..(P. & S.).	4-16
4-30*	Dredging, Boston, Mass.....(S.)	4- 9
5- 1	Floating crane, Quebec, Que..(S.)	2-20
5- 1*	Reduction works, Columbus, Ohio ....(S.)	3- 5
5- 1*	Concrete seawall, Key West, Fla. ....(P. & S.)	3-26
5- 7*	Dredging, Bangor, Me.......(S.)	4- 9
5- 7*	Jetty, Savannah, Ga.......(S.)	4- 9
5-11	Seawall, Newport, R. I..(P. & S.)	4- 9
5-16	Lighting system, New Ft. Lyon, Colo. ....(S.)	4- 9
5-20*	Iron fence, Ft. Ontario, N. Y. ....(P. & S.)	4- 9

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

4-18	Power-house, etc., Juneau, Wis..	4- 2
4-20	Elec. equipment, New York, N. Y.	4- 9
4-21	Light plant, Ligonier, Ind......	4- 9
4-23	Elec. plant, etc., Boston, Mass..	4- 2
4-23	Power-house, etc., Loyal, Wis...	4- 2
4-23	Power-house, etc, Cotton Plant, Ark.	4-16
4-27	Elec. equip., New York, N. Y...	4-16
4-28	Light station, Montpelier, Ohio..	4-16
4-29	Electric supplies, Chicago, Ill..	4- 9
5- 1	Power-house, Edmonton, Alta...	4-16
5- 1	Air compressor, Sandusky, Ohio.	4-16
5- 1*	Power plant, White Plains, N. Y..	4-16
5-16	Lighting system, New Ft. Lyon, Colo.	4- 9

BRIDGES.

4-17	Bridge, Castle Rock, Colo.......	4- 9
4-18	Bridge, Fergus, Ont............	4- 9
4-18	Superstructure, Lancaster, Ohio ..	4- 2
4-20	Substructure, Zanesville, Ohio....	3-26
4-20	Bridge, San Antonio, Tex.......	4- 9
4-20	Bridge, Emerald, Pa............	4- 9
4-20	Bridge, West Union, Ohio.......	4- 9
4-20	Superstructure, Stroudsburg, Pa.	4- 9
4-20	Bridges, Scranton, Pa..........	4-16
4-21	Viaduct repair, Cheyenne, Wyo.	4-16
4-21	Bridge repairs, Wilkes-Barre, Pa.	4-16
4-22	Bridges, Jackson, Ky...........	4-16
4-22*	Bridges, Philadelphia, Pa.......	4- 9
4-23	Bridge, New York, N. Y........	4-16
4-25	Bridge, Camden, Ark...........	4-16
4-25	Bridge, Cleveland, Ohio........	4- 9
4-25	Superstructure, Norwood, Ohio..	4- 9
4-27	Bridges, New Philadelphia, Ohio.	4-16
4-30*	Viaduct, Lynchburg, Va........	4- 9
5- 1*	Bridges, Vancouver, B. C........	4- 2
5- 1	Bridge repair, Mauch Chunk, Pa.	4- 2
5- 2	Bridge, Cleveland, Ohio.........	4-16
5- 6	Bridges, Muncie, Ind	4-16
5- 6	Bridge, Cleveland, Ohio.........	4-16
5-10	Bridge, Virdin, Man............	4- 9
5-11	Bridge, Lane, Idaho	4- 2

BUILDINGS.

4-18	Prison, St. Paul, Minn	4- 2
4-18	Building, Sioux Falls, S. Dak...	4-16
4-20	Hotel, Butler, Pa..............	4-16
4-20*	Heating, Green Bay, Wis........	3-26
4-20*	Plans, etc., Massillon, Ohio.....	4- 9
4-20	School repairs, New York, N. Y..	4- 9
4-20	Heating, etc., New York, N. Y...	4- 9
4-21	Library, Cincinnati, Ohio	4- 2
4-21*	Hospital, Whipple Brks., Ariz....	4- 2
4-21*	Hospital, Philadelphia, Pa......	4- 2
4-23	Heating etc., Spokane. Wash....	3-19
4-23	Alterations, etc., New York, N. Y.	4-16
4-25*	Staircases, etc., Wash., D. C....	4- 9
4-27	Courthouse. Bucyrus, Ohio......	4- 9
4-27	School, Plainfield, N. J.........	4-16
4-27	Alterations, etc., New York, N. Y.	4-16
4-27	Heating, etc., New York, N. Y.	4-16
4-28	School, Montclair, N. J.........	4-16
4-28	Post-office, Watertown, S. Dak..	3-19
4-28*	Post-office, Crookston, Minn.....	3-19
4-30*	Schools, Ft. Monroe, Va........	4- 2
4-30	Hospital, Madison, Ind..........	4-16
5- 1	Church, South Sharon, Pa.......	4-16
5- 1	Hospital, Delaware, Ohio........	4-16
5- 4*	Post-office, Bar Harbor, Me......	3-26
5- 4*	Buildings, etc., San Francisco, Cal.	3-26
5- 5	Tower, St. Paul, Minn	4- 2
5- 8*	Screens, Whipple Barracks, Ariz.	4- 9
5- 9*	Post-office, Eugene, Ore.........	4- 2
5-11	Post-office, Calais, Me.........	4- 9
5-12*	Assay office, New York, N. Y...	4- 9
5-12*	House, Nashville, Tenn.........	4-16
5-14*	Interior decoration, Wilkes-Barre, Pa....	4- 9
5-15	Hospital (U. S. Possessions) Porto Rico	4- 9
5-15	Ice plant (Mfg. Pl.) Ft. Dade, Fla.	4-16
5-21*	Hospital, Buffalo, N. Y..........	4- 9
5-25*	Post-office, Chester, S. C........	4-16
6- 2	Plans, Richmond, Va...........	4-16

WATER-WORKS.

4-17*	Pumping engine, White Plains, N. Y.	3-26
4-18	Distributing system, Fort D. A. Russell, Wyo..	4- 2
4-18	Water tower, Stillwater, Minn....	4- 2
4-18	Pipe, Albany, Ga..............	4-16
4-20	Basin, Goderich, Ont...........	4-16
4-20	Wells, Fort Casey, Wash..	4- 2
4-20	W-Works, Versailles, Ky........	4- 2
4-20	Vitrified pipe, Guelph, Ont......	4- 9
4-20	Water tanks, New Orleans, La..	4- 9
4-21	Trench, Hollidaysburg, Pa.......	4- 9
4-21*	Engine, Oswego, N Y..........	4- 9
4-21	Pipe, Cincinnati, Ohio	4- 2
4-22	Pipe, Toledo, Ohio	4- 2
4-22*	Pump, Oswego, N. Y..........	4- 9
4-22	Drain, Lake City, Iowa.........	4- 9
4-23*	Filter bed, Woonsocket, R. I.....	4-16
4-24	Water supply, Massillon, Ohio...	4-16
4-24	Reservoir, Brantford, Ont........	4-16
4-25	Meters, Norwood, Ohio.........	4- 9
4-28	Pipe system, Malta, Ohio........	3-26
4-30	Cistern, Fort Stevens, Ore......	4-16
5- 1	Pumps, Sandusky, Ohio.........	4-16
5- 4	Reservoir, Tipton, Iowa.........	4-16
5- 4	Ditches, Juneau, Wis...........	4-16
5- 4*	Water system, Milan, Mich......	4-16
5- 4*	Pumping engines, Wilmington, Del.	4- 2
5- 8	Water mains, White Bear, Minn.	4-17
5-18*	Water-works plant, Council Bluffs, Iowa	4-16
6- 1	Drain, Osnabruck Center, Ont...	4-16

SEWERS.

4-16	Sewers, Norfolk, Neb...........	4- 9
4-16	Sewers, Niles, Ohio............	4-16
4-18	Sewer, Fort D. A. Russell, Wyo.	4- 2
4-18	Sewer, Oshkosh, Wis.	4- 2
4-20*	Sewer pipe, Guelph, Ont.........	4- 2
4-20	Sewer, Steubenville, Ohio........	4- 2
4-20*	Sewer system, Versailles, Ky....	4- 2
4-20	Sewers, Bronxville, N. Y........	4- 9
4-20	Sewers, Washington, D. C.......	4- 9
4-20	Sewer, Cairo, Ill...............	4-16
4-20	Sewer system, Aliquippa, Pa....	4-16
4-20	Sewer, San Jose, Cal...........	4-16
4-21	Sewer, Trenton, N. J...........	4-16
4-21	Sewers, Lancaster, Ohio........	4-16
4-21	Sewer, Marion, Ohio...........	4-16
4-22	Sewers, Columbus, Ohio........	4-16
4-22*	Sewers, Philadelphia, Pa........	4- 9
4-22	Sewer, New York, N. Y.........	4- 9
4-22	Sewer, Oakland, Cal............	4- 9
4-23	Sewer pipe, Brantford, Ont.......	4- 9
4-23	Sewers, New York, N. Y.......	4-16
4-27*	Sewer, Washington, D. C........	4-16
4-27	Sewers, Steubenville, Ohio......	4-16
4-28	Sewer, Merrill, Wis.............	4-16
4-29*	Sewers, Washington, D. C......	4-16
4-29*	Interceptor, Baltimore, Md.......	4- 9
5- 4	Pipe sewers, Macon, Mo.........	4- 9
5- 4	Sewers, Roanoke, Va...........	4-16

STREETS AND ROADS.

4-17	Road Improvement, Cincinnati, O.	4- 2
4-17	Street repair, New York, N. Y..	4- 9
4-17	Road, Fort Totten, N. Y........	4-16
4-17	Pavement, Plattsburgh, N. Y...	4-16
4-18	Pavement, Tomah, Wis..........	4- 9
4-18	Street impvt., New Albany, Ind.	4- 9
4-18	Resurfacing, etc., Indianapolis, Ind...	4- 2
4-20	Paving, Chehalis, Wash	4- 2
4-20	Grading, etc., Ashland, Ohio	3-26
4-20	Pavement, Albert Lea, Minn.....	4- 9
4-20	Paving, Rock Island, Ill........	4-16
4-21	Paving, Trenton, N. J..........	4-16
4-21	Brick, St. Louis, Mo...........	4- 9
4-21	Sidewalks, Mt. Healthy, Ohio....	4- 9
4-22	Sidewalks, etc., Brooklyn, N. Y..	4- 9
4-22	Pavements, Quebec, Que........	4-16
4-22*	Grading, etc., Collinsville, Ill...	4-16
4-23	Flooring, New York, N. Y......	4-16
4-23	Brick, Brantford, Ont...........	4- 9
4-23	Street impvt., Green Bay, Wis.	4- 9
4-24	Asphalt blocks, Savannah, Ga...	4- 9
4-25	Macadam, Fort Omaha, Neb....	4- 9
4-27	Paving, Marion, Ill.............	4-16
4-28	Sidewalk, Janesville, Wis.......	4- 9
4-29	Grading, etc., Brooklyn, N. Y...	4-16
5- 1	Wagon road (U. S. Possessions) Alaska	4- 2
5- 1*	Paving, San Salvador, Salvador, C. A.	3-12
5- 1	Paving, Huntsville, Ala	4- 2
5- 1	Road, Noblesville, Ind...........	4-16
5- 4	Road, Tipton, Ind..............	4-16
5- 4	Roads, Albany, N. Y...........	4-16
5- 5	Macadam roads, Greensburg, Ind.	4-16
5- 5	Gravel roads, Vincennes, Ind....	4-16
5- 6	Grading, etc., Muncie, Ind.......	4-16
5- 7*	Macadamizing, River Vale, N. J..	4-16

MISCELLANEOUS.

4-17*	Breakwater, Boston, Mass.......	3-19
4-17*	Dredging, Detroit, Mich..........	3-19
4-17	Tow boats, Cincinnati, Ohio	3-26
4-17	Sea walls, North Scituate, Mass.	4- 9
4-18	Ditch, Rensselaer, Ind...........	4-16
4-20	Fire extinguishers, New York...	4-16
4-20	Brick, Atlanta, Ga.............	4-16
4-20	Garbage collection (Garbage), South Orange, N. J...........	4- 9
4-20*	Pier, dredging, Milwaukee, Wis..	3-26
4-20	Wharf, causeway, New Orleans, La	4- 2
4-21	Barge canal, Albany, N. Y.......	3-26
4-21*	Structural steel, Boston, Mass....	4- 2
4-21	Light station, San Francisco, Cal.	4- 9
4-21	Street sprinkling (Garbage), Bristol, Conn	4-16
4-21	Bulkhead, pier, Edgewater, N. J.	4-16
4-22	Drain, Rockwell City, Iowa.....	4-16
4-22*	Pierhead line hearing, N. Y.....	4- 9
4-22	Ditch, Yankton, S. Dak	4-16
4-23	Broken stone, New York.........	4-16
4-23*	Foundation piers, Wilmington, Del.	4- 9
4-23*	Monument, Charleston, S. C....	3-26
4-23	Road rollers (Garbage), New York, N. Y.	4-16
4-24	Tile drain, Hampton, Iowa......	4-16
4-24	Breakwater, Toronto, Ont.......	3-26
4-24*	Steam roller, Holyoke, Mass....	4- 2
4-24	Ice piers, Halifax, N. S.........	4- 9
4-24*	Dike, Boston, Mass	4- 9
4-24	Iron fence, Columbus, Ohio......	4-16
4-24	Crushed limestone, Minneapolis, Minn.	4-16
4-25*	Embankment, Pottsville, Pa......	4-16
4-25	Monument, Washington, D. C...	4- 2
4-27	Jacks, etc., Panama............	4-16
4-27	Wharf, Campbellton, N. B......	4-16
4-27	Cement, riprap, New York......	4-16
4-27	Fire alarm, New York..........	4-16
4-28*	Rock removal, New York........	3-19
4-28	Steamer, Ottawa, Ont...........	4- 9
4-29	Wharf, Ft. Totten, N. Y........	4- 9
4-30*	Ammunition hoists, Salem, N. J.	4- 9
4-30	Steamer, Washington, D. C......	4- 9
4-30*	Test borings, St. Louis, Mo......	4- 2
4-30*	Dredging, Boston, Mass..........	4- 2
4-30*	Cement, Honolulu, T. H........	4-16
5- 1	Oil tanks, etc, San Francisco...	4-16
5- 1	Cement (U. S. Poss.), Panama..	4- 9
5- 1*	Concrete sea-wall, Key West, Fla.	3-20
5- 1	Floating crane, Quebec, Que......	2-20
5- 4*	Sea wall, wharves, San Francisco, Cal.	3-19
5- 4	Ditch, Juneau, Wis	4- 2
5- 4	Brass, iron castings, Wash., D.C.	4-16
5- 4	Dredging, Wilmington, Del.....	4-16
5- 6*	Sea wall, etc., Boston, Mass.....	4- 9
5- 6*	Stone crusher, etc., West Point, N. Y.	4-16
5- 7*	Dredging, Wilmington, Del......	4- 9
5- 7*	Dredging, Bangor, Me..........	4- 9
5- 7*	Jetty, Savannah, Ga...........	4- 9
5- 7	Garbage collection (Garbage), Cincinnati, Ohio	4-16
5- 8	Subway, New York, N. Y........	4- 9
5- 9*	Dock, dredging, Chicago, Ill.....	4-16
5-10	'Phone system, Virden, Man....	4- 9
5-11	Sea wall, Newport, R. I.........	4- 9
5-11*	Reduction works, Columbus, O...	2-20
5-13*	Pier, Holland, Mich............	4-16
5-13*	Dredging, Bridgeport, Conn.....	4-16
5-13*	Dredging, etc., Chicago, Ill.......	4-16
5-14*	Wharf, Portland, Me...........	4-16
5-20*	Iron fence, Ft. Ontario, N. Y...	4- 9

FOREIGN.

4-25	Dredger, Argentina	2-13
5- 1	Elec. railway, Argentina.........	11-21
5- 6	Ry. concession, Spain	3-19
5-26	'Phone material, Austria.........	2-13

CIVIL SERVICE.

4-18	Conduit inspector, Albany, N. Y..	3-26
4-18	Mech. engineer, Albany, N. Y...	3-26
4-18	Asst. chief engr., Albany, N. Y..	3-26
4-18	Asst. C. E., Albany, N. Y......	3-26
4-18	C. E. draftsman, Albany, N. Y..	3-26
4-22	Grain standardization assistant, Washington, D. C................	3-26
4-29	Magnetic Observer, Wash., D. C.	3-26
4-29	Blacksmith, Browning, Mont.....	3-26
4-29	Magnetic observer, Wash., D. C.	4-16
4-30	Inspector Pipes, Castings, New York	4- 9
5- 5	Inspector Pipe Laying, New York.	4- 9
5- 6	Apprentice, Wash., D. C..........	3-26
5- 6	Laboratory asst., Wash., D. C..	4-16
5- 6	Ch. Engr., Philippines...........	4-16
5- 6	Junior Engr., Wash., D. C......	4-16
5- 6	Field Asst., Washington, D. C..	4-16
5- 6	Junior chemist, Wash., D. C....	4-16
5- 6	Lab. aid & engr., Wash., D. C..	4-16
5- 6	Steam engineer, Wash., D. C...	4-16
5- 7	Inspector Hydrants, New York...	4- 9
5- 9	Asst. C. E., Albany, N. Y.......	4-16
5- 9	Bridge designer, Albany, N. Y..	4-16
5- 9	Bridge draftsman, Albany, N. Y.	4-16
5- 9	Health officer, Albany, N. Y...	4-16
5- 9	Highway Insp., Albany, N. Y...	4-16
5- 9	Leveler, Albany, N. Y..........	4-16
5- 9	Mech. draftsman, Albany, N. Y.	4-16
5-12	Inspector Light & Power, New York	4- 9
5-13	Electrician, Columbus Barracks, Ohio	4-16

RAILWAYS.

FITCHBURG (BOSTON & MAINE).—The Public Service Commission, Second District, Albany, N. Y., has granted the petition of the Fitchburg R. R. Co. to issue a mortgage for $2,400,000 and an equal amount of bonds to be secured by the mortgage. The proceeds are to be used by the company in general improvements along its road and in double-tracking its line from Troy to Johnsonville, N. Y. Albert S. Cheever is Supt. Fitchburg Division, B. & M., Boston, Mass.

GEORGIA & FLORIDA RY.—J. W. WRIGHT, JR., West Point, Ga., who is extending the Chattahoochee Valley Ry. north from West Point, has closed a contract, the total amount of which aggregates over $1,500,000 and calls for closing all gaps on the Georgia & Florida Ry. between Augusta and Valdosta, Ga. J. M. Turner is Gen. Mgr., Augusta, Ga.

HIGHLAND RAILWAY.—Incorporated in Virginia with a capital of $5,000 to build and operate a steam railway. J. K. M. Norton is Pres., Louis C. Barley Vice-Pres., Gordon Thomas Secy. and Treas.; J. M. Hill, Howard W. Smith, Walter Varney and R. H. Cox, directors. Headquarters of the company are to be at Alexandria, Va.

ILLINOIS & FOX RIVER CENTRAL.—This railroad was sold at Yorkville, Ill., last week and, by agreement, Attorney Adams bought all of the property, with the exception of the rails, for $2,000. Attorney Adams represents Rittenhouse & Embree, lumber dealers, 3500 Centre Ave., Chicago. Captain A. C. Little, who was present at the sale as a representative of the railway company, stated that it was pre-arranged for Rittenhouse & Embree to buy the property, which consists of about 20,000 ties, valued at $11,000, to stop others from securing a lien. According to the Ottawa (Ill.) "Journal," the line may be completed through from Yorkville to Morris via Lisbon.

LOS ANGELES HARBOR R. R.—This company will build a steam railway from Los Angeles to Wilmington, Cal., 25 miles, and under the charter of the Los Angeles Harbor Co., which was incorporated at the same time and by the same parties as the Los Angeles Harbor R. R. Co., will build a dock and deep water harbor in Wilmington Bay adjoining San Pedro. No preparations have yet been made for beginning construction. The officers are: A. C. Bird, Pres., Security Bldg., Los Angeles, Cal.; A. H. Koebig, Ch. Engr.; W. J. Arkell, Vice-Pres.; F. C. Wintrode, Secy.; and J. W. Oakley, Treas.

LOUISIANA.—A committee was recently appointed at Plancheville, La., to work on the plan for a railroad from Plancheville to connect with the line of the Louisiana Railway & Navigation Co. at Moreauville, La. G. G. Gremillion, Mayor; Louis A. Sumner, C. E.; Prof. H. G. Lewis and others are interested.

LUEHRMAN & WESTERN.—This company has been chartered in Arkansas to build a railway from Luehrman, Ark., on the Missouri Pacific System, to Reyno, Randolph County, Ark., 9½ miles. Capital stock, $20,000. George W. Luehrman, Pres., St. Louis, Mo., and W. M. Alexander, Secy. and Treas., Konbel, Ark.

POTOMAC VALLEY.—Incorporated in Maryland to build from Keyser, in Mineral County, to Bloomington, in Garrett County, Md. Capital stock, $150,000. The incorporators are: Louis P. Trabe, Joseph J. Benton, Charles A. Geiger, C. M. Burkett and Anton Korn, all of Wheeling, W. Va. The principal office will be at Piedmont, W. Va.

ROCKPORT, SHENANDOAH & DES MOINES.—W. K. Palmer & Co., Dwight Bldg., Kansas City, Mo., advise us that definite plans for the construction of this road are being made. The road will be an extension of the Rockport, Langdon & Northern Ry., now operating between Langdon and Rockport, Mo., 5½ miles. The latter line will be rebuilt and the new construction will be from Rockport, Mo., to Shenandoah, Iowa. The W. K. Palmer Co. is Engr. for the work and will have entire charge of the purchasing of all materials, letting of contracts for grading and labor and supervision of construction. Correspondence with contracting firms is invited.

SANTA FE, LIBERAL & ENGLEWOOD.—We are officially advised that work is under way and that company wishes to receive bids from contractors on ties, rails, etc. This railway will be built from Des Moines, Union County, N. Mex., to Woodward, Okla., via Hooker; also a branch from Gate, Okla., to Englewood, Kan., a total of about 325 miles. C. D. Shepard & Co., 31 Nassau St., New York, are financial agents.

SOUTH CAROLINA.—A. W. Betts, Bailey Bldg., Philadelphia, is interested in project to charter the present logging road running from New Sumter, three miles east of Sumter, S. C., to the Beulah section in Clarendon County, and converting it into a standard gage railroad and extend it further into the Puddin Swamp country, which, until lately, has been a large scope of fine agricultural territory practically without railroad facilities. The road would pass through the Beulah, Salem, Shiloh and Turbeville section.

UNION INDUSTRIAL.—A charter has been granted to this company in Oklahoma to build a connecting line between the Chicago, Rock Island & Pacific and the Kansas City, Mexico & Orient lines at Aline, Okla. Capital stock, $15,000. The incorporators are: George W. Graham, J. A. Hartshorn and W. J. Woodliff, of Aline, Okla., and H. L. Noah and H. A. Noah, of Alva, Okla.

WASHINGTON, PATUXENT & DRUM POINT.—This company has applied for a charter to construct a railway from a point on the Chesapeake Beach Railroad in Calvert or Anne Arundel Counties, east of the Patuxent River, through these counties to Drum Point and Solomon's Island at the mouth of the Patuxent River. Capital stock, $250,000. The incorporators are C. A. M. Wells, Joseph R. Owens, Rexford M. Smith, Wallace A. Bartlett and Charles A. Wells, of Prince George County; and Ira J. Baker and Charles C. Mayer, of Washington, D. C.

WESTERN PACIFIC.—An addition of 5,000 men will be made to this company's construction crews within a short time, it is stated. The line between Salt Lake and Elko will probably be finished by fall and regular trains will be operated on this division as soon as the track is laid. The

Flower Lake tunnel, 150 miles west of Salt Lake, and one of the longest tunnels on the road, will be finished in June. About 630 miles of the proposed total 929 miles have been graded and nearly 300 miles of track laid. The grading and construction work now under contract is being done by E. P. & A. L. STONE, of Oakland, Cal.; the UTAH CONSTRUCTION CO., Ogden, Utah, and MANEY BROS. & CO., Winnemucca, Nev. The principal shops of the road will be built at Sacramento, Cal., and minor shops will be located at division headquarters, which have not yet been selected. A total of 75 steel bridges, aggregating a length of 15,535 ft., are required on the line, and of this number seven have been completed to date. There will be 43 tunnels of a total length of 45,342 ft. Four of the longest of these tunnels are 7,306 ft., 6,006 ft., 5,664 ft., and 4,287 ft. long, respectively. Tunnel work is over 50% completed. Virgil G. Bogue is Ch. Engr., Mills Bldg., San Francisco, Cal.

ELECTRIC RAILWAYS.

PLYMOUTH, MASS.—The stockholders of the Plymouth, Carter & Wareham St. Ry. Co., at a meeting held at Plymouth on April 6, voted to dissolve the affairs of the company, pay its debts and distribute the remaining capital to the stockholders, who will receive about 75% of the value of their stock. The company was organized in Dec., 1903, for the purpose of constructing a street railway from Plymouth through Carver to Tremont and Wareham, through the principal cranberry growing section of the state. The company was capitalized at $45,000. It is stated that the constantly increasing prices of construction material brought the cost of construction considerably above the available capital and this made it necessary to abandon the project without a single mile of railway having been built. The cash now on hand is $34,817. Henry S. Griffith, of Carver, is Pres. of the company.

NEW YORK, N. Y.—Bids are asked by the Public Service Commission, First District, until noon, May 8, at 154 Nassau St., for construction of six sections of the Fourth Ave. subway in Boro. of Brooklyn: (A) Flatbush Ave. extension, Nassau St. to Willoughby St., Manhattan Bridge, No. 1; (B) Willoughby St. to Ashland Place; (C) Fourth Ave., and Ashland Place to Fulton St. and Sackett St.; (D) Fourth Ave., Sackett St. to Tenth St.; (E) Fourth Ave., Tenth St. to 27th St.; (F) Fourth Ave., 27th St. and 43d St. Travis H. Whitney, Secy.

ROME, N. Y.—The Rome & Osceola R. R. Co. has been incorporated in New York to build a standard-gage railroad from Rome to Osceola, N. Y., 25 miles. It is to be operated by steam or electric power. The capital stock of the company is $500,000. The directors of the corporation are as follows: W. Pierrepont White and Hugh White of Utica, N. Y.; David Swancott, of Lee Center, N. Y.; Jay A. Pease, of Boonville; William I. Taber, of Utica; W. S. Jones, of Pierrepont Manor; Jonathan S. Haselton, Thomas H. Stryker, Franklin A. Ethridge, John S. Wardwell, Fred M. Shelby, Edward H. Comstock and John D. McMahon, of Rome.

ROCHESTER, N. Y.—The Rochester, Corning & Elmira Traction Co., which proposes to build a double-track electric road from Rochester to Elmira, a distance of 120 miles, has been authorized by the Public Service Commission to issue capital stock to the amount of $3,880,000, being the full amount of its authorized capital stock now unissued, making a total of $5,000,000 stock. The order provides that the proceeds of stock and bonds shall be used for the acquisition of property in the construction of its proposed double-track road from Rochester to Elmira and for the construction and completion of the said road and the maintenance of its service thereon in accordance with the plans submitted upon the application for this authorization, including the purchase of right-of-way, terminal, construction of the said double track road and necessary power plant, installation of machinery, purchase of rolling stock and other equipment, and such other requirements as may be necessary to put the road in full operation. The ROCHESTER & SOUTHERN CONSTRUCTION CO., 24 Exchange St., is the general contractor.

MEYERSDALE, PA.—The Pennsylvania & Maryland St. Ry. Co. has begun survey for its line from Meyersdale to Garrett and Berlin. J. E. Tiffany is Engr. H. H. Nanst is Vice-Pres. and Gen. Mgr., Elk Lick, Pa.

PATUXENT, MD.—A bill has been introduced in the Maryland legislature incorporating the Washington, Patuxent & Drum Point R. R. Co. to build a steam or electric railway from a point on the Chesapeake Beach Railway to Solomon's Island at the mouth of the Patuxent River, passing through Calvert, Prince George and Anne Arundel Counties. Capital stock, $250,000. Incorporators: Ira J. Baker and Charles C. Mayer, of Washington; C. A. M. Wells, Joseph R. Owens, Rexford M. Smith, Wallace A. Bartlett and Charles A. Wells.

JACKSON, MISS.—J. W. Abernathy is promoting a single-rail interurban railway system to connect the towns of Hazlehurst, Browns Wells, Barlow and Dentville, in Copiah County. The road is to be about 40 miles in length. Estimated cost, $3,000 a mile.

PADUCAH, KY.—The Royal Investment Co., of Minneapolis, Minn., is stated to have closed a deal with the Kentucky & Ohio River Interurban Ry. Co., of Paducah, to construct 50 miles of electric railway, connecting Cairo, Ill., and Paducah, also purchasing $1,000,000 of first mortgage bonds. L. B. Whitesides is Pres.; C. F. Crump, of Columbus, Ohio, Secy., and J. J. Freundlich, of Paducah, is Gen. Mgr.

NORWALK, OHIO.—Subscriptions are being taken for funds with which to build the Cleveland & Indianapolis Interurban Ry., from Norwalk to Bluffton, Ind. C. F. Jackson is interested.

NEWBURG, IND.—The Evansville Terminal Ry. Co., of Evansville, Ind., has applied for a franchise to enter Newburg. Noted fully under "Evansville," on March 19.

INDIANAPOLIS, IND.—The Indianapolis & South Bend Traction Co. has had surveys made for its proposed line between Logansport and Burlington, Ind., 20 miles. Surveys will be run between Burlington and Indianapolis, 50 miles. E. Bowman is Pres. and J. Shafer is Ch. Engr., 730 State Life Bldg., Indianapolis. Noted fully on Feb. 20.

PANA, ILL.—The Pana, Girard & Jacksonville Ry. Co., at a recent meeting of the stockholders held at Springfield, Ill., elected the following officers: C. E. Sargent, Pres.; J. N. Anderson, Vice-Pres.; B. V. F. Darneille, Secy.; J. J. Stowe, Treas. The line will pass through Girard and Jacksonville, Ill., connecting with the lines of the Illinois Traction system at Pana. Work of securing franchises and right-of-way will be started at once. Company was incorporated last week with $50,000 capital. Headquarters are at Springfield, Ill.

CRETE, ILL.—The Chicago Inland Traction Co. has been incorporated in Illinois to construct an electric railway from Crete to Kankakee, Ill., passing through Goodenow, Beecher, Sollett, Grant Park and Momence, following the Kankakee River from Momence to Kankakee, a distance of 32 miles. Right-of-way is being secured. Capital stock, $900,000. Incorporators: Dr. Edward Doepp, Blue Island; C. W. Rhodes, Elmer Schlesinger, Edwin D. Lawler, Chicago; H. C. Bangs, Glencoe, Ill.

FOX LAKE, ILL.—The Inter-Lake Ry. Co. has been incorporated in Illinois to build an electric railway from a point on Lake Michigan to Fox Lake, in Lake County, Ill. Capital stock, $5,000. Incorporators: A. F. Struckman, Colonial Trust & Savings Bank, Chicago; Otto Hopper, S. N. Conway, Martin D. Smith and S. S. Welcher, of Chicago.

JOLIET, ILL.—The Joliet & Southern Traction Co. has made financial arrangements for completing the extension from New Lenox to Blue Island, Ill., this year. Company will do its own construction work. Estimated cost, $500,000. H. A. Fisher is Pres.; L. D. Fisher is Ch. Engr., Joliet.

CHICAGO, ILL.—The Chicago Railways Co. has announced a complete schedule of the work planned by the Board of Supervising Engineers in the reconstruction and extension of the street car lines on the West and North Sides. It shows that 59.55 miles of new track and roadbed will be completed on the lines of the Chicago Railways Co. this spring and summer. Of the total 32.17 miles will be laid in the regular course of rehabilitation, 20.27 miles will be put down in conjunction with the new paving work under way by the city and 7.11 miles will be in extension of present lines. The portions of track to be laid in reconstruction are: Milwaukee Ave., from Desplaines to Robey Sts., 4.5 miles. Blue Island Ave., from Harrison to 17th Sts., 2.5 miles. Madison from Clinton to Paulina Sts., three miles. Clark from Washington to Addison Sts., 9.5 miles. Clybourn Ave. from Division to Cooper Sts., four miles. Van Buren from Clinton St. to Kedzie Ave., 6.5 miles. Robey from Division St. to North Ave., and from Harrison to Madison Sts., two miles. The stretches of new roadbed to be put down in connection with street improvements are: Lincoln Ave. from Irving Park Boulevard to Western Ave., 2.3 miles. Clark St. from Lawrence to Devon Aves., four miles. Kedzie Ave. from Carroll Ave. to Twelfth St., three miles. Adams from Desplaines to Sangamon Sts., 0.7 mile. Clybourn from Diversey to Fullerton Aves., 1.5 miles. Evanston from Graceland to Montrose Ave., 0.5 mile. Southport from Belmont to Fullerton Ave., two miles. Four sections of Robey St., from 18th St. to Blue Island Ave., from Grand Ave. to Division St., from Lawrence to Balmoral Ave. and from Irving Park Boulevard to Montrose Ave., altogether 5.5 miles; and a few blocks on Lake St., between Pine and Central Aves., and on Sangamon between Lake and Fulton Sts. The extensions are to run on Chicago Ave. from 40th to 48th Aves., two miles; Harrison St., from Kedzie to 40th Aves., two miles; Fullerton, from Milwaukee to 40th Aves., 2.7 miles, and Indiana St., from State St. to Lincoln Boulevard, 0.5 mile.

DAVENPORT, IOWA.—The Davenport & Manchester Ry. Co. directors, at a recent meeting, considered plans and estimates for the proposed line from Davenport to Manchester, Iowa, 93 miles. Arrangements for financing the project will be undertaken at once.

ST. JOSEPH, MO.—The Interstate Ry. Co. has secured right-of-way for its proposed line between St. Joseph and Kansas City, about 50 miles. It will be a double-track line. Surveys are made. Smith H. Bracey, 1606 Tribune Bldg., Chicago, is Pres.; A. T. Russell is Ch. Engr.

LOUISIANA, MO.—The Louisiana Light, Power & Traction Co. will build an electric line between Louisiana and Bowling Green, Pike County, probably this summer. It will be eleven miles long. Capital stock, $200,000. Power house and repair shop will be located at Louisiana. D. Turnbolt is Pres. and Gen. Mgr., and F. E. Murray, Secy., of Louisiana.

HOT SPRINGS, ARK.—The Essex Valley Land Co. has been incorporated to do a general real estate business and to construct an electric railway from Hot Springs to Essex Park and Potash Sulphur. Among the incorporators are J. A. Riggs and W. S. Kirkham.

CORPUS CHRISTI, TEX.—A franchise for an electric railway in Corpus Christi has been applied for by George H. Paul and F. B. Bannister, representing a company which proposes to build and have in operation five miles of street railway in the city within two years.

DALLAS, TEX.—A franchise has been granted to A. F. Slater, of West Dallas, W. L. Spence, Frank Ford and others, to build and operate an electric railway between Dallas and West Dallas.

NORTH YAKIMA, WASH.—The Yakima Valley Transportation Co. has applied for an extension of one year in which to complete the first five miles of track. Under the terms of the franchise, the company should have had this amount of tracklaying completed by March 12, but owing to delays only three miles had been laid. Five miles must be laid each year hereafter.

LOS ANGELES, CAL.—Announcement is made that Henry C. Huntington's electric railway interests have been taken over by E. H. Harriman. The companies that change ownership are the Los Angeles & Redondo Ry. Co., which connects Redondo, Inglewood, Moneta, Gardena, Sunnyside and Los Angeles, 80½ miles. The Los Angeles Interurban Ry. Co. (325 miles), the Los Angeles Ry. Co. (191 miles) and the Pacific Elec. Ry. Co. (215 miles). The Pacific Elec. Ry. Co. is a consolidation of Los Angeles & Pasadena Elec. Ry. Co., Pasadena & Mt. Lowe Ry. Co., Temple St. Cable Ry., the Pacific Elec. Ry. of Arizona. The Los Angeles Inter-Urban Ry. and the Los Angeles Ry. Co. are also operated by Huntington interests. The Pacific Elec. Ry. Co. connects Los Angeles with Mt. Lowe, Monrovia, Pasadena, Alhambra, Santa Ana, Baldwins Ranch, Sierra Madre, Long Beach, San Pedro, Alamitos Bay, Huntington Beach, Glendale, Whittier, San Gabriel Mission, Covina, Newport, Bay City, Naples and Balboa.

MEXICO CITY, MEXICO.—The Mexican Electric Tramways Co. has issued $15,000,000 (gold) of mortgage bonds. The National Trust Co. of New York will handle the bonds, bearing 5% per annum. According to available information, the company will convert the first mortgage bonds to the amount of about $5,000,000 gold, and it is understood that bonds to the amount of $7,500,000 gold will be used to meet obligations of the company. The proceeds from the issue of a large portion of the bonds will be spent in extending the lines, purchasing new equipment, improving the electric plant, and in establishing a reserve fund. Harro Harrsen is Gen. Mgr., Indianilla, Mexico City.

LIGHT AND POWER PLANTS.

BUCKSPORT, ME.—It is stated that the Penobscot Bay Electric Power Co. is planning to construct two power-houses in this section early in the spring. The company owns the Lock & Sluice Co.'s privileges at the falls and one other location, which may be developed this summer.

BARRE, MASS.—An electrical power plant capable of generating 320 HP. is planned by the Barre Wool Combing Co., Ltd., of South Barre, at the old powder mill property on the Ware River, near Barre Station. The company will build its dam six feet higher, overflowing many more acres of land than the present pond covers, and to erect a building to hold the water wheels, dynamos and other electrical equipment. The work is to be completed by next August, ready to furnish power for the mill at South Barre.

MILFORD, CONN.—It is stated that the New York, New Haven & Hartford R. R. Co. will award contracts during the spring or early summer for the construction of a power plant on the Housatonic River in Milford. The new plant will be similar to the one located at Cos Cob and will furnish electricity for operating the electric trains between this city and New York. It is proposed to erect the third power-house in or north of New Haven. W. S. Murray is Electrical Engr., New Haven, Conn.

NEW YORK, N. Y.—Contracts have been awarded by C. B. J. Snyder, superintendent school buildings, to T. FREDERICK JACKSON, 592 Columbus Ave., New York, for installing electric equipment as follows: Public School No. 153, Boro. of Brooklyn, for $8,344; Public School No. 90, Boro. of Queens, for $9,951. Noted fully on April 2.

NEW YORK, N. Y.—Bids were received as follows on April 13, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing electric equipment in new Public School No. 17, on 47th and 48th Sts, about 325 ft. west of Seventh Ave., Boro. of Manhattan: T. Frederick Jackson, 592 Columbus, Ave., $14,225; Griffin & Co., 116 Nassau St., $14,796; A. Feldman Construction Co., $13,620; Cowden & D'Young, $13,993; Ries & O'Donovan, 1123 Broadway, $14,740.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 27, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing electrical equipment in Public School No. 155, corner of Herkimer St. and Eastern Parkway, Boro. of Brooklyn.

*WHITE PLAINS, N. Y.—Bids are asked by the Board of Supervisors for constructing a power-house and plant at White Plains. Alfred R. Wolff, Fulton Bldg., New York, is Consult. Engr.; Lord & Hewlett, 345 Fifth Ave., New York, are Archs. Chauncey T. Secor is Chn.

FORT ANN, N. Y.—The Kane's Falls Pulp Co. has made plans to install an electric light and power plant in the old pulp mill at Kane's Falls. The plant will have a capacity of 1,500 KW. and will furnish electricity for lamps and motors in Fort Ann, Glens Falls and other nearby places. The company controls the watershed supplying the Kane's Falls power, and proposes to build a larger dam at Kane's Falls. Eugene L. Ashley is Pres.

PRINCETON, N. J.—We are officially advised that the following contracts have been let for installing a central heating and lighting plant for the Theological Seminary in time for the opening in September. The Richard D. Kimball Co., 6 Beacon St., Boston, Mass., has prepared the plans and will have charge of the work: Engines and generators, the RIDGEWAY DYNAMO & ENGINE CO.; switchboard, WILLIAM SHEELE SWITCHBOARD CO.; wiring, J. H. LEHMAN & CO., Princeton.

PATERSON, N. J.—Plans are being considered by Charles Curie, owner of the Colt Building, it is reported, for the installation of a private electric [illegible]ng plant for the purpose of furnishing [illegible]city for the Colt Building, and for other [illegible]ings in the block bounded by Market, Co[illegible]llison and Church Sts.

*WASHINGTON, D. [illegible]ds were received as follows April 8, at [illegible] office of Elliott Woods, Supt. of the [illegible] Capitol Building and Grounds, Washingt[illegible] C., for furnishing panel boxes for [illegible]w Senate office building. National Ele[illegible] Supply Co., 13[illegible] New York Ave., Wash[illegible] D. C., $3,920; Metropolitan Switchbo[illegible]o., New York, $4,650; Walker Electr[illegible] Philadelphia, $4,244; Western Electri[illegible] New York, $4,148; General Electric C[illegible]nectady, N. Y., $3,640; Crouse-Hinds [illegible]yracuse, N. Y., $4,800; Trumbull Elec[illegible]fg. Co., Plainville, Conn., $3,200.

BALTIMORE, MD.—[illegible] Knox Taylor, Superv. Arch., Treasury [illegible] Washington, D. C., has awarded to [illegible]ARD P. CALDWELL & CO., 38 West [illegible]St., New York, contract for furnishing [illegible] standards for the Baltimore custom-ho[illegible] $4,200.

CHARLESTON, W. V[illegible] contract for rewiring the State Capito[illegible] been awarded to the SACKETT MINE [illegible]PPLY CO., [illegible] East Long St., Colum[illegible] Ohio. L. A. Sackett is Pres.

SALISBURY, N. C.—[illegible] Salisbury & Spencer Ry. Co. contemplates securing electrical energy for operating its street railway system from the Southern Power Co., of Charlotte. H. W. Frund [illegible] Mgr., S. & S. Ry. Co.

AMERICUS, GA.—The Americus Railway & Light Co., A. N. Waller, Pres., has awarded contract to KITE & WILSON, of Columbus, Ga., for erection of a brick power-house, fireproof, with steel smokestack 150 ft. high and 5½ ft. in diameter, resting on base of brick and concrete. Contracts for power machinery aggregating $100,000, were noted on March 12.

REYNOLDS, GA.—D. S. Sanders, Reynolds, intends installing a power plant and will need a power dynamo, 4,000 ft. No. 8 insulated wire, switchboard and all necessary equipment for small lighting plant, including a 10-HP. gasoline engine, lamps, belts, countershaft and wire.

MACON, GA.—We are officially advised that the Central Georgia Power Co. (formerly the Bibb Power Co.) is planning to build a dam 1,400 ft. long and 100 ft. high on the Ocmulgee River. The company will erect four 2,500-KW. units, operated at ¾-gate normal output, to transmit power to Macon and adjacent towns. Estimated cost, $1,850,000. Contracts will be let within 60 days. Charles F. Howe, Grand Bldg., Macon, is Ch. Engr. Noted on Feb 13 and March 12.

JACKSON, GA.—Central Georgia Power Co., Charles E. Howe, Chief Engr., Grand Bldg., Macon, Ga., has had plans prepared for its first plant on Ocmulgee River near Jackson to include the following: 1,400-ft. dam, constructed of Cyclopean concrete; power-house integral with and just below dam to be about 65 × 170 ft.; power-house equipment to include four water-wheel units of about 4,200 HP., each directly connected to 3-phase alternating-current generators; electricity to be stepped up to 60,000 volts and transmitted to Macon. Transmission lines will be double circuit, including reinforced-concrete poles. In Macon the electricity will probably be distributed direct to large consumers and through Macon Railway & Light Co. to small consumers, according to the "Manufacturers' Record." The date for awarding construction and machinery contracts has not been determined.

CANTON, MISS.—The Municipal Electric Light and Water-Works Commissioners have awarded a contract to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., for a 75-arc lamp series alternating-current street lighting system. The commissioners contemplate changing the system from 1,100 volts, 133 cycles to 2,300 volts, 60 cycles, in June or July, and probably will purchase two alternators having a rating of 180 and 120 KW., respectively, and a Corliss engine to drive the smaller generator. John T. Sharp is Supt.

NEW ORLEANS, LA.—We are officially advised that bids will be received in about 60 days by the Sewerage and Water Board for improvements to the plant of Board at Algiers, New Orleans. The plant is to be changed from steam to electric drive and several new motor-driven pump-units will be installed. Plans and specifications may be obtained by applying to the Sewerage and Water Board. Cost, $25,000. A. B. Wood, 604 Carondelet St., New Orleans, is Des. Engr.

NASHVILLE, TENN.—An appropriation of $100,000 has been passed by the City Council to enlarge the city's light plant, it is stated. Plans and specifications for enlarging power-house are being prepared by the Building Inspector. Bids for constructing same will be taken soon. Bids on electric generating unit will be taken later on. The Board of Public Works has matter in charge. J. W. Dashiell is Secy.

WEST MILTON, OHIO.—L. A. Pearson, West Milton, is considering plans for construction of a hydro-electric plant to cost about $10,000. It is proposed to install an electric lighting system, including 25 arc lamps of 2,000 c. p. and 1,000 incandescent lamps. No engineer has been employed.

MONTPELIER, OHIO.—Bids are asked by C. D. Hall, Clerk Board of Public Affairs, until noon, April 28, for the improvement of the municipal water and light station. George Champ is Engr., 610 The Nasby, Toledo, Ohio.

SANDUSKY, OHIO.—Bids are asked by the Board of Public Service until noon, May 1, for furnishing and erecting one duplex air compressor, steam-driven, duplex steam cylinders, duplex compound air cylinders, with fly-wheel connections, to be constructed to deliver 1,000 cu. ft. free air at 5 lbs. pressure, with steam boiler pressure at 80 lbs., to operate with about 150 r. p. m. A. J. Stoll is Pres.

CALUMET, MICH.—The Calumet Gas Co. intends making additions to its plant, including a storage holder, capable of storing 100,000 cu. ft. of gas, or 3½ times the capacity of the present holder. An extra purification outfit is to be procured as well as a P. & A. tar extractor, and a new ammonia concentrating outfit.

DETROIT, MICH.—The City Council has approved estimates to the amount of $377,796 for the Public Lighting Commission, of which $10,000 was allowed for improvements to the plant; $61,335 for constructing conduits for fire, police and public lighting wires in certain sections of the city. J. J. Haarer is Comr. Dept. Public Works.

DES MOINES, IOWA.—Plans for a heating system for Des Moines, to cost about $1,000,000, have been submitted to the members of the Greater Des Moines Committee by H. H. Schott and I. R. McCreery, Engrs., of Chicago, Ill. George B. Hippe, Paul Sawyer, Frank D. Jackson, E. W. Crelin and Lucius Wilson compose the Special Committee. The engineers recommend a hot water system of heating.

CLOQUET, MINN.—The Great Northern Power Co., Providence Bldg., Duluth, has had a surveying party working in the vicinity of Cloquet dam, on the Cloquet River, in Section 15, 52-14, and it is stated that plans have been made for the construction of a 45-ft. concrete dam across the river, replacing the old structure, which is 15 ft. high. The new dam, it is said, will cross the river between the points of the two hills now joined by the old wooden dam. The concrete dam will cause an overflow of Boulder Lake and other smaller lakes along the river above the site of the dam. The increased height of the dam will give the power company a reservoir comprising the upper part of the river, with its lakes and a portion of the low lands along the river will be submerged. It is expected that the dam will raise the water over a foot over the Rice Lake Road, where it crosses the river. E. P. Coleman, Duluth, is Mgr. and Ch. Engr.

ST. PETER, MINN.—The City Council of St. Peter has under consideration the question of installing a new generator and engine and making necessary repairs to the power-house. No plans or specifications have as yet been prepared. F. H. Silverton, St. Peter, is Supt.

SOUTH ST. PAUL, MINN.—Plans are being considered by the St. Paul Union Stock Yards Co. for the purchase of a 50-KW. direct-connected unit and a 60-KW. belted unit, switchboards, motors, feeders, centrifugal pumping plant, etc. Edward P. Burch, Guarantee Loan Bldg., Minneapolis, is Consult. Engr.

MITCHELL, S. DAK.—The Mitchell Illuminating & Power Co., Mitchell, is contemplating improvements to its plant and system which, according to plans now under consideration, will require the purchase of new machinery.

HELENA, MONT.—We are officially advised that the Capital City Improvement Co., Kohrs Block, Helena, Mont., is proceeding with plans for its prospective work, which includes construction of a concrete steel dam across the Missouri River in this vicinity, approximately 1,500 ft. in length and with a 120-ft. head. There will be built a suitable power-house and 40 miles of 70,000-volt, 3-phase transmission line. The property is being built for the Capital City Power Co. by the Capital City Improvement Co., and when completed will be operated in conjunction with the transmission system of the Missouri River Power Co., supplying wholesale power to the vicinities and cities of Helena, Butte and Anaconda. As yet no contracts have been placed for power-house equipment. The line construction and building of the dam will be under the direction and management of the Capital City Improvement Co. M. H. Gerry, Jr., is Ch. Engr. and Gen. Mgr., and W. L. Miller, Engr.-in-Charge. Noted on April 2.

ST. LOUIS, MO.—A plan for the City Hall and the municipal buildings to be constructed on property to be acquired between Market, 13th and 14th Sts., and Clark Ave., and for lighting of the Court-house and Four Courts and some streets, is under consideration by the Mayor, A. J. O'Reilly, Pres. of the Bd. of Public Improvements, and Isaac Taylor, Arch., 715 Locust St. It is planned to establish a municipal lighting and heating plant to cost $250,000 on the property owned by the Keyes-Marshall Realty Co., located between Market St. and Clark Ave., and fronting on 13th St., to eradicate the present $50,000 plant now operated in the City Hall, and transfer it to the new Insane Asylum buildings. Tentative plans for the plant have been prepared by Mr. Taylor.

ST. JAMES, MO.—It is reported that the St. James Ice & Power Co. will establish an electric lighting plant. The company will erect a building 80 × 80 ft., to cost about $8,000. Machinery to cost $16,000 will be installed. Louis Decker, 812 North Tenth St., St. Louis, Mo., is interested.

ST. JOSEPH, MO.—Among the projects upon which the St. Joseph Railway, Light, Heat & Power Co. is figuring are: The expenditure of $60,000 in its power station, erection of car barns on South Sixth St. near Hickory St., costing $40,000, and changing a number of its lines so as to give direct car service from the union station by way of the new hotel. C. F. Hewitt is Gen. Supt., St. Joseph.

WEST PLAINS, MO.—A company has been organized to install an electric power plant at the Samuel Hammond Mill, on the North Fork River, in Ozark County, about 20 miles from the city, it is stated. It is proposed to erect a dam at this point and transmit electricity to the city. The company, it is said, will submit a proposition to supply electrical energy to the municipal electric light plant at a much lower cost than the city can operate the plant. C. H. Martin, of Doniphan, Mo. Thomas D. Martin, C. K. Martin and Samuel Hammond are interested in the project.

COTTON PLANT, ARK.—Bids are asked until April 23 by J. M. Philpott, City Clk., for construction of a power-house, a 30,000-gallon steel tank and tower, and for furnishing an 85-HP. gas engine, a 300-gallon triplex pump and a 45-KW. direct-connected generator and switchboard. W. G. Kirchoffer, of Madison, is Engr.; E. P. Ford, Cotton Plant, is Secy.

CHILDRESS, TEX.—The Childress Ice & Light Co., recently incorporated, will establish an electric light plant and ice factory and will erect building and install machinery. P. C. Maricle is Mgr.

ALAMOGORDO, N. MEX.—We are officially advised that C. L. Cory, Consult. Engr., 200 California St., San Francisco, Cal., is preparing plans for a water power plant for M. H. Fisher, Alamogordo. About 1,000 HP. will be developed. The plant will cost $60,000 and contracts will be let in July or August.

BERKELEY, CAL.—Samuel L. Napthaly, 1770 Pacific Ave., San Francisco, Mgr. of the City Electric Co., San Francisco, is reported to be planning for his company the erection of an electric lighting and power plant at Berkeley. This company is interested in the electric railway which is to be built from Berkeley over the tunnel road into Contra Costa County, tapping Walnut Creek, Lafayette and those towns along the proposed course. The right-of-way has been secured by the company and preliminary surveys have already been made. Mr. Napthaly states that the actual work of building the railway will begin soon.

LOVELOCKS, NEV.—The Lovelocks Light & Power Co. has negotiated with Stephen R. Young to supply power developed on the Humboldt River to the Young ranch, near Lovelocks. The plans of the power company call for a 10,000-volt transmission line to the town limits, where a transformer house will be built and transformers installed. W. B. Joslyn is Gen. Mgr., Lovelocks.

EDMONTON, ALTA.—Bids are asked until May 1 by R. R. Keely, City Engr., for erecting a building for a municipal electric lighting plant, to be operated by producer gas engines. Estimated cost, $20,000. The plant will have a capacity of 700 KW.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

LE ROY, N. Y.—George A. Ricker, Consulting Engr., Ellicott Square Bldg., Buffalo, N. Y., is preparing plans for the construction of a reinforced concrete bridge at Le Roy, 80-ft. span, 60-ft. roadway, 200-ft. concrete approach. Bids will soon be asked.

NEW YORK, N. Y.—Bids are asked by J. W. Stevenson, Comr. of Bridges, until 2 p. m., April 23, for completing the abandoned contract for the construction of the Madison Ave. temporary bridge over the Harlem River.

The following bids for furnishing and delivering pipe rails, railing posts and fittings to the Brooklyn Bridge were opened by the Department of Bridges on March 26, as follows: E. F. KEATING CO., 446 Water St., $3,013 (awarded contract); Vulcan Rail Construction Co., $3,107; Manhattan Supply Co., $3,297; Binney-Godfrey Co., $3,690.

SCRANTON, PA.—Bids are asked by E. A. Jones, County Controller, Lackawanna County, until 10 a. m., April 20, for constructing several bridges.

EASTON, PA.—The contract for the erection of the superstructure of the Fourth St. bridge in the Borough of Northampton Heights, the expense of which is to be borne by the Easton & South Bethlehem Transit Co., the Bethlehem Steel Co. and Northampton Heights, has been awarded to FINE & HARRIS, Land Title Bldg., Philadelphia, Pa., at $27,250.

S. W. CHILES, Philadelphia, Pa., has been awarded the contract for the masonry work at about $15,000.

WILKES-BARRE, PA.—Bids are asked by James M. Norris, County Controller, Wilkes-Barre, until 2 p. m., April 21, for furnishing bridge lumber for repairs to the county bridge over Big Nescopeck Creek, in Sugar Loaf Township, known as the McNeal bridge.

BETHLEHEM, PA.—The Minsi Trail Bridge Co. was organized on April 4 for the purpose of constructing a bridge across the Lehigh River from Northampton Heights to the east end of Bethlehem. The structure will be of steel with concrete piers. Estimated cost, $100,000. R. E. Neumeyer, Bethlehem, is Engr.

BALTIMORE, MD.—The Owners' Realty Co., Baltimore, contemplates the construction of a bridge 500 ft. long across Northeast Creek, where it empties into Back River, for the purpose of connecting the Philadelphia road at Rosedale Station with Eastern Ave. extended. Estimated cost, $10,000.

JACKSON, KY.—Bids are asked by the Fiscal Court until April 22 for the construction of two steel bridges.

LORAIN, OHIO.—The following bids have been received by the County Commissioners for the superstructure of the bridge near Loramie: Single span bridge: The Bellefontaine Bridge & Steel Co., $6,000; Wynkop and McGormley, $5,100; the Brookville Bridge Co., $4,264 (brick paved); $4,118 (concrete floor); Central States Bridge Co., $4,913; double span bridge: The Bellefontaine Bridge & Steel Co., $5,000; Wynkop and McGormley, $4,300; the Brookville Bridge Co. (brick paved), $3,774; (concrete floor), $3,605; Central States Bridge Co., $3,948; the Cleveland Bridge Co., $4,348; Bids on plans submitted: Cleveland Bridge Co., double span, brick, $3,974; concrete $3,474; single span, brick, $5,288; concrete, $4,798; Bellefontaine Bridge and Steel Co., single span, $4,300; Wynkop & McGormley, double span, creosote block, $2,948; concrete, $2,997; single span, creosote block, $3,300; concrete, $3,254; the BROOKVILLE BRIDGE CO., single span, brick, $3,439; concrete, $3,279 (awarded contract); buckle plate brick, $4,137; double span, brick, $3,194; concrete, $3,034; buckle plate, brick, $3,807; Central States Bridge Co., single span, $3,921; double span, $2,980.

MIDDLETOWN, OHIO.—The following bids were received on April 9 by the County Commissioners for the construction of a hoist bridge over the Miami and Erie Canal at Tytus Ave.: Wynkop & McGormley, (A) $19,175, (B) $15,683; Capital Construction Co., $10,000. J. E. Brate is County Audr.

DAYTON, OHIO.—The County Commissioners on April 4 awarded the contract to JACOB GABLER'S SONS for the superstructure of a concrete bridge on the Shakertown pike, at $5.45 per cu. yd.

CLEVELAND, OHIO.—Bids are asked until 11 a.m., May 6, by the County Commissioners for the construction of a steel concrete bridge in Euclid Township. William F. Black is Clk. Comrs.

COLUMBUS, OHIO.—The contract for the construction of the superstructure of the bridge across Raccoon Creek on Church St. was awarded on April 2 by the County Commissioners to the MT. VERNON BRIDGE CO., of Columbus, Ohio, at $11,940. Henry C. Maetzel is City Engr.

YOUNGSTOWN, OHIO.—Plans for the construction of an overhead bridge at Spring Common have been completed. F. M. Lillie is City Engr.

DAMASCUS, OHIO.—SCHNEIDER BROS. have been awarded the contract for concrete abutments, piers and concrete floor for the Henry County Bridge over the Maumee River at $18,000.

LORAMIE, OHIO.—The contract for constructing a steel bridge over Loramie Creek, McLean Township, bids opened March 28, has been awarded by the county to the BROOKVILLE BRIDGE CO., at $3,279. J. C. Rosser is County Audr.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., May 2, by the Board of County Commissioners for the construction of a steel concrete bridge in Parma Township. William F. Black is Clk. Comrs.

NEWARK, OHIO.—The contract for the construction of the superstructure of the bridge across Raccoon Creek on Church St. has been awarded by the County Commissioners to the MOUNT VERNON BRIDGE CO., Columbus, Ohio, at $11,940.

NEW PHILADELPHIA, OHIO.—Bids are asked until 1 p. m., April 27, by the County Commissioners for the construction of bridges and culverts.

LEBANON, IND.—We are officially advised that JAMES F. PIERCE and JOHN HAFFNER, of Lebanon, were awarded the contract on April 6 by the County Commissioners for the repair and construction of 22 bridges. Oliver Clark, Lebanon, is Design. Engr.

KOKOMO, IND.—The Commissioners of Howan County will soon ask for bids for the construction of a reinforced concrete arch bridge over Prairie Creek on East Mulberry St.

NORTH VERNON, IND.—The Commissioners of Jennings County have awarded the contract to HARMON BROS. for the construction of a bridge over Graham Creek at $6,447.

RICHMOND, IND.—The Commissioners of Wayne County will soon ask for bids for the repair of five bridges.

MUNCIE, IND.—Bids are asked by the Commissioners of Delaware County until 10 a. m., May 6, for the construction of two bridges, one over the Mississmawa River at Black's mill and the other over White River at Smithfield.

CHICAGO, ILL.—T. H. Pihlfeldt, Bridge Engr., is preparing plans for the construction of a reinforced concrete bridge over the Illinois & Michigan Canal, at Western Ave. Estimated cost, $22,000.

CEDAR RAPIDS, IOWA.—The city contemplates erecting a reinforced concrete bridge on 16th Ave. T. R. Warriner is City Engr.

BUFFALO, MINN.—F. H. BROWN, Monticello, Minn., has been awarded the contract for the construction of a steel bridge across the Craw River. H. C. Brazie is County Audr.

HUTCHINSON, KAN.—T. G. Elbury, City Engr., is preparing plans for the construction of a steel bridge, with concrete abutments, at Fifth St. Edward Metz is City Clk.

INDEPENDENCE, KAN.—The Montgomery County Commissioners are having plans prepared for the construction of a 300-ft. span steel bridge. E. H. Stewart is County Clk.

WICHITA, KAN.—The Council has approved plans for the construction of a reinforced concrete bridge at East Douglas Ave. Estimated cost, $120,000. R. N. Dorr is City Clk.

CHEYENNE, WYO.—Bids are asked by J. D. Wright, City Clk., until 5 p.m., April 21, for reflooring the Central Ave. viaduct.

CAMDEN, ARK.—Bids are asked by W. T. Martin, County Judge, until 2 p. m., April 25, for constructing a wooden or steel bridge across the Two Bayou, two miles south of Camden.

SILT, COLO—The Missouri Valley Iron & Bridge Co., of Leavenworth, Kan., submitted the lowest bid on April 3 for the construction of a steel bridge over the Grand River here, at $12,578. T. W. Jaycox, Denver, is State Engr.

LOS ANGELES, CAL.—The Board of Public Works awarded the contract on April 1 for the construction of a reinforced concrete bridge across Arroyo do Las Pesas at Macy St. to the UNION IRON WORKS, Los Angeles, Cal., at $51,787. Homer Hamlin is City Engr.

MATAPEDIA, N. B.—John Hall Kelly, M. L. A., for Bonaventure County, has obtained a grant of $5,000 from the Quebec government to go towards the erection of the interprovincial passenger bridge at Matapedia.

WINNIPEG, MAN.—We are officially advised that the city has purchased one span 153 ft. long of the second-hand, single-track, through-truss, 2-span railroad bridge (bids opened March 27) from the Canadian Pacific Ry. Co., at $4,840. M. Peterson is Secy. Bd. of Control.

WINNIPEG, MAN.—The Canadian Northern R. R. Co. will construct a double track steel bridge across the Assiniboine River here. M. H. McLeod is Gen. Mgr.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—We are officially advised that the city of Springfield intends to construct a library to cost $300,000. The structure will be 222 × 86 ft., constructed of granite, marble and terra-cotta and will have two stories and basement. Bids will be invited in a few weeks. Edward L. Tilton, 32 Broadway, New York, N. Y., is Arch.; H. C. Wellman is Librarian, Springfield.

The contract for erecting the Kensington Ave. school has been let by the Committee on City Property to W. A. NEWTON & CO., 337 Washington St., Springfield, at $73,756. The plumbing contract has been let to J. J. COTTER CO., at $5,565. A. F. H. Pillsbury is Chn.

BOSTON, MASS.—It is the intention of the Directors of the Boston Penny Savings Bank to erect a banking building at Washington and Union Park Sts., South End. The building will have one story, the banking room being 28 ft. high. The site measures 50 ft. on Washington St., upon which the building wil front, and 125 ft. on Union Park St. Oliver & Litchfield, 6 Beacon St., are Archs.

WELLESLEY, MASS.—A library building will be built here for Wellesley College, to cost about $250,000. Caroline Hazard is Pres. Shepley, Rutan & Coolidge, Ames Bldg., Boston, Mass., are Archs.

WILLIMANTIC, CONN.—The State Board of Education has adopted the plans submitted by Davis & Brooks, Archs., 49 Pearl St., Hartford, for the model school in Willimantic, which is to be built at a cost of $90,000. Bids for the construction of the building will be advertised for in a few days.

HARTFORD, CONN.—The Building Committee of the Arsenal School has awarded the contract for the construction of the new addition to ADAM PURVES, 15 Wells St., Hartford. The masonry work was awarded to RICHARD JOHNSON; the plumbing to HANLON & MURPHY, 280 Asylum St., and the electric lighting and fixtures to A. W. GREEN, 24 State St.

HARTFORD, CONN.—The North East School District, of this city, has voted to purchase land and erect a 12-room addition to the present school building at a cost of about $50,000. Marshall L. Hill, Chn. Bldg. Com.

NEW YORK, N. Y.—Walter E. Parfitt, Arch., 26 Court St., Brooklyn, advises us that he is preparing plans for the construction of two additional stories to the Kings County Court-house, Brooklyn. Estimated cost, including complete equipment, $400,000. Bird S. Coler is Pres. Boro. of Brooklyn.

We are advised that W. H. Gompert, 2102 Broadway, has prepared plans for a 16-story brick and stone office building for the Sinclair Realty Co., 31 Nassau St. The building will measure 50.3 × 122.9 ft., will cost $400,000 and will be erected at the corner of Broadway and Eighth St.

NEW YORK, N. Y.—We are officially advised that the Fluri Construction Co., 1809 Amsterdam Ave., is taking estimates on a 6-story brick and stone apartment house, to be erected on Broadway, near 180th St. The structure will be 89.3 × 146.10 and 117.3 ft., and will cost about $240,000. Neville & Bagge, 217 West 125th St., are Archs.

Thomas Smith, 380 Audubon Ave., is taking estimates for a tenement he will build at St. Nicholas Ave. and 181st St., we are advised. The building will have five stories, wil measure 50 × 90 ft., and will cost $65,000. Neville & Bagge, 217 West 125th St., are Archs.

William L. Rouse, Arch., 11 East 43d St., advises us that contracts probably will be let in June for a 6-story brick, stone and terra-cotta apartment house, 130 × 150 ft., to cost about $200,000. The building will be erected by Klein & Jackson, 49 Wall St., at the corner of Riverside Drive and 161st St.

NEW YORK, N. Y.—Bids are asked until 10.30 a. m., April 23, by Nicholas J. Hayes, Fire Comr., for additions and alterations to the quarters of Engine Company No. 112, located at 136 Wythe Ave., and to the quarters of Hook and Ladder Company No. 56, located at 124 Greenpoint Ave., Brooklyn; also for additions and alterations to the quarters of Engine Company No. 117, located on the south side of DeKalb Ave., 225 ft. west of Lewis Ave., Boro. of Brooklyn.

Plans have been filed for a 12-story mercantile building to be erected at 8 East Twelfth St. by the Master Builders' Realty & Construction Company. The structure will cost $100,000. Samuel Sass, 23 Park Row, is Arch.

We are officially advised that in about three weeks estimates will be received for constructing three buildings for the Union Theological Seminary, 700 Park Ave. The building will have about five stories. Allen & Collens, 1170 Broadway, are Archs.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 27, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing heating and ventilating apparatus in Public Schools No. 16, Boro. of the Bronx, and Nos. 56 and 90, Boro. of Queens; for alterations, repairs, etc., for Public Schools Nos. 1, 8, 16, 23, 41, 44, 107, 108, 180, and Washington Irving High School, Boro. of Manhattan; for forming offices, committee room, etc., on the ninth floor of the hall of the Board of Education, Park Ave. and 50th St., Boro. of Manhattan.

NEW YORK,, N. Y.—The Board of Education at its meeting held April 8 adopted a resolution requesting the Board of Estimate to authorize the immediate issue of corporate stock, to the amount of $4,107,075, the proceeds to be used for the erection of new elementary school buildings and additions. Following is a list of schools with the sum required to be expended on each:

Boro. of Manhattan.—Public Schools No. 101, 111th St. near Lexington Ave., $295,000; No. 132, 182d St. and Wadsworth Ave., addition, 16 rooms, $96,000.

Boro. of Brooklyn.—Public Schools No. 28, Herkimer St., near Ralph Ave., $211,000; No. 84, Glenmore and Stone Aves., addition, 32 rooms, $256,000; No. 99, East Ninth St., near Ave. K, 26 rooms, $182,000; No. 120, Barren Island, $17,000; No. 126, Meserole Ave. and Lorimer St., $132,000; No. 128, 21st Ave. and 83d St., addition, $119,000; No. 160, Fort Hamilton Ave. and 51st St., 35 rooms, $211,000; No. 131, Fort Hamilton Ave. and 43d St., temporary building, $8,000; No. 162, St. Nicholas Ave. and Suydam St., 48 rooms, $280,000; No. 163, Benson and 17th Aves., 35 rooms, $211,000; No. 164, 14th Ave. and 42d St., 48 rooms, $327,000; No. 166, Porter Ave. and Harrison Pl., 48 rooms, $327,000.

Boro. of The Bronx.—Public School No. 30, 141st St. and Brook Ave., addition, 18 rooms, $135,000.

Boro. of Queens.—Public Schools No. 51, Johnson Ave., Richmond Hill, addition, 27 rooms, $198,000; No. 58, Walker and Grafton Aves., Woodhaven, $195,000; No. 77, Covert Ave. and George St., Ridgewood, 44 rooms, $330,000; No. 81, Ridgewood, temporary building, $9,500; No. 87, Middle Village, addition, 24 rooms, $202,000; No. 7, Van Alst Ave., Long Island City, addition, 24 rooms, $170,000.

Additional 5% contingencies, $195,575; total for city, $4,107,075. C. B. J. Snyder is Supt. of School Bldgs., Dept. of Education.

NEW YORK, N. Y.—Plans have been filed with the Building Department for an 18-story office building to be erected at 26 Beaver St. by the Stock Quotation Telegraph Co., on the premises. Morgan M. O'Brien, 100 East 76th St., is Arch. Estimated cost, $250,000.

We are officially advised that eight contractors are preparing estimates for a 3 and 4-story brick and stone public library to be built at East Broadway and Division St. The estimates will be received at once, when contract will be let. Babb, Cook & Welch, 3 West 29th St., are Archs. Cost, $100,000. A. E. Bostwick, New York Public Library, 23d St. near Seventh Ave., is in charge.

We are officially informed that Emanuel Doctor, 207 West 133d St., will build a 6-story brick and stone apartment house on Claremont Ave., 200 ft. north of 122d St., at a cost of $65,000. The structure will be 100 × 87 ft. John Hauser, 360 West 125th St., is Arch.

NEW YORK, N. Y.—McKim, Mead & White, Archs., 160 Fifth Ave., New York, advise us that the plans prepared by them for the proposed post-office will cover the area over the Pennsylvania R. R. tracks on the west side of Eighth Ave., between 31st and 33d Sts. The principal façade, that on Eighth Ave., consists of a row of Corinthian columns, terminated at the north and south ends by pavilions containing niches. This colonnade corresponds to the public corridor which extends the entire length of the building along Eighth Ave. The façades on the streets follow out the same general motive, with pilasters used instead of columns and with a pavilion at the west end. The new post-office will have a frontage of over 400 ft. on Eighth Ave., and will extend back along 31st and 33d Sts., a distance of 335 ft. Access to the building will be given by flights of broad steps on both the avenue and street frontages. The architects have given special attention to the design which, while conforming with the style of the proposed Pennsylvania terminals, will be of a monumental or governmental character.

NEW YORK, N. Y.—We are advised by Maynicke & Franke, Archs., 298 Fifth Ave., that the Fifth Avenue Building Co. will erect a 14-story office building with stores on the street floor. It will front 200 ft. on Fifth Ave. and Broadway, 240 ft. on 23d St. and 265 ft. on 24th St. The facades will be of limestone and polished granite at the base. The stores and entrances will be flanked with a series of Doric columns two stories high. Around the top stories will be a series of 3-story bays. There will be arcades, 23 ft. wide, through from 23d to 24th Sts. and from the Broadway-Fifth Ave. entrance to the rear arcade. At the intersection of the arcades will be a rotunda, with glass dome. It will be lined with white marble pilasters. The entrances will be of the barrel vault design, more than 40 ft. high. No wood will be used. The floors will be concrete. The trim of the doors will be heavy drawn steel. Window frames will be bronze. The bases of the offices will be marble. In the interior metal doors will be wire glass. The building will cost about $2,500,000.

Hill & Stout, Archs., 1123 Broadway, advise us that estimates will be taken at once for an 11-story brick and stone loft building to be erected at 49 West 24th St. for Edmund Coffin, 34 Pine St. The structure will measure 45 × 83.10 and will cost $130,000.

NEW YORK, N. Y.—The following bids were received on April 13 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing heating and ventilating apparatus in Public Schools, (a) No. 153, (b) No. 159, Boro. of Brooklyn, (c) No. 14, Boro. of Manhattan, (d) No. 28, Boro. of Richmond: Frank Dobson, 319 East 53d St., (a) $33,643, (b) $33,383, (c) $19,900, (d) $4,171; Gillis & Geoghagan, 537 West Broadway, (a) $30,800, (b) $31,000, (c) $17,765, (d) $4,359; E. Rutzler & Co., 127 White St., (a) $33,223, (b) $33,268; Blake & Williams, 211 West 20th St., (a) $33,622, (b) $34,988; James Curran Mfg. Co., 512 West 36th St., (a) $33,290, (b) $32,738, (c) $18,416; Baldwin Engineering Co., 107 West 17th St., (b) $30,888; R. J. Sovereign, 63 Fifth Ave., (b) $34,400; William J. Olvaney, 177 Christopher St., (c) $22,303; Raisler Heating Co., (c) $19,798, John Hankins & Bros., 550 West 25th St., (c) $17,776; Daniel J. Rice, 5 East 42d St., (d) $4,526.

ALBANY, N. Y.—Plans have been prepared for a 5-story apartment house to be constructed on the south side of State St., just east of Lark St., by Cameron & Hawn, 608 Central Ave. The structure will have a frontage of 26 ft., will be 73 ft. deep and will cost $50,000. The material will be of brick, with Indiana limestone trimmings and Harvard pressed brick front. The entire frontage of the first story will be of limestone. Work is to be begun May 1 and completed Oct. 1. The building will be equipped with electric elevators. The first floor is to be designed for physicians' offices, and the other floors are designed to contain parlor, reception room, library, dining room, kitchen, servants' rooms and three chambers with bath.

ALBANY, N. Y.—JAMES D. WALSH'S SONS, 40 Sheridan Ave., Albany, N. Y., have been awarded the contract for the plumbing, drainage, ventilation, roofing, cornice, sheet metal work and gas fittings in the Morris Kantrowitz Block on Hamilton St. The work also includes installing two separate heating plants in each house.

ALBION, N. Y.—Joseph J. Churchyard, 648 Clinton St., Buffalo, writes us that he desires prices on all work for the proposed building at the Western House of Refuge for Women at Albion.

CATSKILL, N. Y.—The County Board of Supervisors has decided to erect a court-house and jail at Main and Bridge Sts., the site and building to cost about $150,000.

LEWISTON, N. Y.—Plans are being prepared by A. A. Post, Arch., Mooney Bldg., Buffalo, for a 3-story and basement convent building, to be erected near Lewiston, for the Buffalo Academy of the Sacred Heart, Sisters of St. Francis, Buffalo. Estimated cost, $300,000.

BUFFALO, N. Y.—Esenwein & Johnson, Archs., 777 Ellicott Sq., will prepare plans for a 1-story grand opera and music hall for the Buffalo Grand Opera Co. De Cortez Wolffunger, 115 West Chippewa St., is interested.

We are officially advised that bids will be received about May 15 for construction of a brick hospital, 80 × 120 ft., for Dr. Dewitt G. Wilcox, 594 Elmwood Ave. Estimated cost, $100,000. John H. Coxhead, 928 Ellicott Sq., is Arch.

WAMPSVILLE, N. Y.—James A. Loyster, Chn. Bldg. Com.,Cazenovia, N. Y., advises us that a fireproof court-house and a jail will be built in Wampsville at a cost of about $153,000; equipment, $8,000. Reily Gordon, 402 Fifth Ave., New York, and William J. Beardsley, Poughkeepsie, N. Y., are Archs. for the court-house and jail buildings, respectively.

PLAINFIELD, N. J.—Bids are asked until April 27, by the Board of Education, Plainfield, for erecting a 2-story school building at Plainfield. The structure will cost about $90,000. Hale & Rogers, 11 East 24th St., New York, N. Y., are Archs.

MONTCLAIR, N. J.—Bids are asked until April 28, by the Board of Education, for erecting a 2-story school building at Montclair. Hale & Rogers, 11 East 24th St., New York, N. Y., are Archs.

FORT HANCOCK (Sandy Hook post-office), N. J.—Capt. M. N. Falls, Constr. Q. M., advises us that bids for construction of coast artillery barracks at this post, opened March 19, were referred to the Quartermaster General, U. S. Army, and that it was decided to construct the double barracks and awards were made by him as follows: Construction proper—R. P. & EDWARD O. HAMILTON, Fort Hamilton, Brooklyn, N. Y., and Omaha, Neb., at $68,400; time, 240 working days. Plumbing—J. B. GILL & CO., 319 Warren St., Newark, N. J., at $7,294; time, on or before date fixed for completion of construction proper. Steam heating—The NICHOLAS PLUMBING & HEATING CO., of Columbus, Ohio; time, on or before date fixed for completion of construction proper; price, $5,596. Electric wiring and fixtures—ELMER E. LOWELL, Portland, Me., as follows: Wiring, $1,364; fixtures, $574; time, on or before date fixed for completion of construction proper. Noted fully on April 2.

TRENTON, N. J.—The governor has signed bills to permit this city to build a city hall, to cost about $800,000. The Commission, of which Ferdinand W. Roebling, 222 West State St., Trenton, is a member, will proceed with construction at once.

NEW CASTLE, PA.—The City Council has adopted the plans of W. G. Eckles, Arch., Lawrence Trust Bldg., New Castle, for the high school building to be erected this summer here at a cost of $250,000. Revised specifications will be prepared at once, and bids asked for as soon as possible in order that work may be started not later than May 1.

ERIE, PA.—Alden & Harlow, Archs., Farmers' Bank Bldg., Pittsburg, have been retained to prepare plans for a 6-story brick, stone and concrete store, office and lodge building, 82½ × 115 ft., at Peach and Eighth Sts., Erie, for the Masonic Building Co., D. A. Sawdey, Chn. Bldg. Com. Cost, $175,000.

PHILADELPHIA, PA.—A permit has been issued to William Freeman for erection of a synagogue at the corner of Broad and York Sts. for the congregation Mickve Israel. The building will measure 88 × 75 ft., and will be of stone and brick construction. The cost will be $60,000. Pilcher & Tachau, 13 East 19th St., New York, are Archs. The ground on which the synagogue will be built was purchased last year from the MacCormack estate by William Freeman, executor of the estate of the late Samuel Elkin. One-half of the lot will be used as the site for a synagogue. On the remaining half the Dropsie College for Hebrew and Cognate Learning.

HOMEWOOD, PA.—E. V. Kerner, House Bldg., Pittsburg, Pa., has prepared plans for a 16-room addition to the 3-story High School for the School Board, Homewood. Cost, $100,000.

SOUTH SHARON, PA.—Bids are asked until 7.30 p. m., May 1, by the Building Committee for construction of St. Elizabeth's Roman Catholic Church at South Sharon.

BUTLER, PA.—Bids are asked by Joseph H. Harvey, Butler, until noon, April 20, for construction of a hotel building here. F. J. Porter, Reiber Block, Butler, is Arch.

PITTSBURG, PA.—Rutan & Russell, Archs., McGee Bldg., are preparing plans for a 3-story brick residence to be built at Wilkins and Shady Aves. for J. W. Friend. Cost, $100,000.

PITTSBURG, PA.—Albert J. Logan, Chn. Executive Com., West Pennsylvania Hospital, Pittsburg, advises us that J. L. Beatty, 146 Sixth St., Pittsburg, has been selected as architect for the proposed hospital building.

The Rev. Regis Canevin, Roman Catholic Bishop of Pittsburg, has granted permission for improvements and new buildings in the Pittsburg diocese of the Roman Catholic Church to cost $155,000. Among the grants is a permit to St. Joseph's Hospital, 2117 Carson St., Southside, for the erection of a building to cost $75,000. The other grants include permits for a convent to the congregation of St. Adelbert's Church, Southside, to cost $24,000; a church and school for St. Athanasius congregation, West View, to cost $40,000; an addition to St. Coleman's School, Turtle Creek, to cost $8,000; a rectory adjoining St. Patrick's Church, Heilwood, to cost $4,500, and a chapel to be erected by St. Elizabeth's congregation at Stanford, to cost $3,800. Plans for St. Joseph's Hospital, Southside, were prepared by John T. Comes, Arch., Washington Bank Bldg., Pittsburg. The new structure will cover a site 80 × 170 ft. It will be of brick and stone, will be fireproof and will accommodate 100 patients.

WASHINGTON, D. C.—Bids were received as follows, April 8, at the office of Elliott Woods, Supt. of the U. S. Capitol Bldg. and Grounds, Washington, D. C., for eight elevators for the new Senate Office Building: Kaestner & Co., 241 South Jefferson St., Chicago, $65,762, $72,575, $62,000, $67,900; Thomas W. Power Elevator Co., Washington Loan & Trust Bldg., Washington, $65,000, $69,225; Marine Engine & Machine Co., 230 West 13th St., New York, $75,905, $86,499, $68,962, $79,557, $67,987; A. B. See Electric Elevator Co., 220 Broadway, New York, $72,150, $74,500, $8,975 additional for bronze metal cars; National Electric & Machine Co., Honesdale, Pa., $67,875, $59,750, $8,950 for bronzed cars; Otis Elevator Co., Corcoran Bldg., Washington, $56,870, $59,475, $67,500, $4,500 additional for bronze cars.

The Senate has passed bills providing for public buildings at the following cities: Miami, Fla., to cost $200,000; Walla Walla, Wash., to cost $350,000; Muskogee, Okla., to cost $260,000; to authorize the extension, enlargement and alteration of the public building at Kansas City, Mo., amount not stated; at Minot, N. Dak., to cost $20,000. James Knox Taylor is Superv. Arch., Treasury Dept.

WASHINGTON, D. C.—The Commissioners of the District of Columbia have awarded contract for the construction of a 16-room school building in the District to MILTON C. DAVIS, 5 Hopkins Pl., Baltimore, at $95,000.

RICHMOND, VA.—Competitive designs for erection of combined market and armory building will be received at office of Charles E. Bolling, City Engr., until June 2. Postponed from March 23. Architects submitting designs will be required to furnish plans, four elevations, longitudinal and cross sections and other necessary detail drawings; also proposal from reliable company that building can be erected for $100,000; prize for second best design $250, and for third best $200.

LYNCHBURG, VA.—The First National Bank awarded contract to C. W. HANCOCK & SON, of Lynchburg, for erection of bank building, which will have two stories, 37 × 132 ft. The structure will be built of white marble and will cost $100,000. Lewis & Burnham, of Lynchburg, are Archs.

PORTSMOUTH, VA.—Bids were received as follows April 8, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Portsmouth, Va.: George A. Fuller Co., Munsey Bldg., Washington, D. C., $71,500; additional for marble in lieu of sandstone or limestone, $14,500; 11 months. King Lumber Co., Charlottesville, Va., $76,400; $15,610. Jones & Adams, Lynchburg, Va., $79,779; $23,500. Lane Bros., Ashby and Marietta Sts., Atlanta, Ga., $66,773, $31,720; J. Henry Miller, 110 Dover St., Baltimore, $84,777, $22,367; 14 months. E. Hart, Norfolk, Va., $72,500; $20,000; M. P. Wells, Philadelphia, $74,271; $23,375; 297 working days. Ambrose B. Stannard, St. James Bldg., New York, $73,843; $29,000. R. H. Richardson & Son, Hampton, Va., $64,793; $21,794. J. W. Jones & F. B. Walker, Norfolk, Va., $79,760; $16,500; Oct. 1, 1909. Miles & Bradt Co., Anstell Bldg., Atlanta, Ga., $69,388; $28,000. Noel Construction Co., German and Calvert Sts., Baltimore, Md., $71,157; $12,500; John G. Unkefer & Co., Minerva, Ohio, $69,895; $16,000. Penn Bridge Co., Washington, D. C., $74,913; $15,400; time to complete, Dec. 1, 1909.

*CHESTER, S. C.—Bids are asked until 3 p. m., May 25, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at Chester.

MACON, GA.—E. P. Frazer, of Macon, has selected Harry Leslie Walker, Empire Bldg., Atlanta, and A. Ten Eyck Brown, Atlanta, Ga., as architects for an apartment house, 110 × 130 ft., seven stories high, with 30 apartments of six rooms each. Cost, about $200,000.

PENSACOLA, FLA.—The American National Bank will erect a 10-story office building to cost from $175,000 to $[illegible]. Carpenter & Blair, 475 Fifth Ave., New York, are Archs. It will be a fireproof building, 92 × 61 ft., of brick and terra cotta construction.

BESSEMER, ALA.—Bids were received as follows April 11 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction of a post-office at Bessemer, Ala.: [illegible] Bros., 828 North 17th St., Birmingham, $47,250; H. A. Bishop, 218 LaSalle [illegible], Chicago, $49,000; Alfred Struck, Inc., Louisville, Ky., $45,000; King Lumber Co., Charlottesville, Va., $48,870; Charles Hoertz & [illegible], Grand Rapids, Mich., $56,987; Alger [illegible] Blair, Montgomery, Ala., $48,800; [illegible] Ridge Construction Co., Asheville, N. [illegible], $45,283; Miles & Bradt, Austell [illegible], Atlanta, Ga., $50,000; Ev[illegible] Bros. Contracting Co., 2231 First [illegible], Birmingham, Ala., $52,236; Alfred [illegible], Bessemer, Ala., $44,700; time specified, [illegible] Sept. 1, 1909.

AGRICULTURAL COLLEGE, M[illegible].—A. J. Moore, Secy. and Purchasing Agent of the Mississippi Agricultural and Mechanical College, advises us that at a meeting of the Board of Trustees of the institution on March 30, it was decided to advertise for plans and specifications for a building to be occupied as an administration building with a chapel and academic rooms, the chapel to to have a minimum capacity of [illegible] and the cost of the building, including heating system, plumbing, wiring, and furnishings, to be $100,000. It is probable that plans will be adopted for a building consisting of a basement and three stories.

*NASHVILLE, TENN.—Bids are asked until 11 a. m., May 12, by Maj. William W. Harts, Corps Engrs., U. S. A., for building lockmaster's frame house at Lock 21, Cumberland River.

LOUISVILLE, KY.—Alfred S. Joseph has been engaged to prepare plans for the State Fair buildings. $100,000. J. W. Newman is Secy.

COLUMBUS, OHIO.—The Tracy-Wells Co., Spring & Front Sts., will erect a 6-story slow-burning building. It will have a frontage of 93 ft. on Front St. and 187½ ft. on Spring St. Richards, McCarty & Bulford, The Ruggery, Columbus, are Archs.

DELAWARE, OHIO.—Bids are asked by the Board of Trustees of the Girls' Industrial Home, at the office of Marriott & Allen, Archs., Hayden-Clinton Bank Bldg., Columbus, Ohio, until noon, May 1, for the erection of a brick hospital. T. F. Dye is Secy.

CLEVELAND, OHIO.—Cram, Goodhue & Ferguson, 15 Beacon St., Boston, Mass., have prepared plans for a church for the Euclid Avenue Presbyterian congregation, Cleveland. Cost, $225,000.

CLEVELAND, OHIO.—We are officially advised that bids were received by the Board of Education, East Sixth St., for construction of a school on East 55th St., between Scovill Ave., S. E., and Portland Ave., S. E., to be known as the Technical High School. Charles Orr is Dir. of Schools. Following are the bids: Electrical equipment, labor and material—Burke Electric Co., New England Bldg., $6,187; The Triumph Electric Co., Wade Bldg., $5,815; L. H. Nielson Co., $7,400; Sprague Electric Co., Schofield Bldg., $6,746, on two wire machines with balancing set, $6,609; S. K. Elliott, 322 Champlain St., $7,533; Crocker Wheeler Co., New England Bldg., $6,428; Ridgway Dynamo & Engine Co., $6,600; The Strong, Carlisle & Hammond Co., 336 Franklin Ave., N. W., 3-wire, $6,574, alternate, $5,946.

Electrical Equipment and Steam Engines—A. L. Ide & Sons, $11,150; The Brownell Co., Beckman Bldg., $10,315; The Strong Carlisle & Hammond Co., 3-wire, $10,745, alternate, $10,120.

Electric Wiring Without Storage Battery—L. H. Nielson Co., $11,955; Enterprise Electric Co., 5307 Euclid Ave., $18,000; Harrington & Grant, 708 Vincent Ave., N. E., $10,724; The Wingate & Brooks Co., 64 Public Sq., $13,850; Martien Electric Co., Cuyahoga Bldg., $10,487.

Storage Battery and Equipment Complete—L. H. Nielson Co., $1,500; Enterprise Electric Co., $1,400; Harrington & Grant, $1,140; The Wingate & Brooks Co., $953; Martien Electric Co., $1,097.

Electrical Equipment; Electric Wiring and Storage Battery—Enterprise Electric Co., $19,400.

Steam Engines—L. H. Nielson Co., $5,550; Phoenix Iron Works Co., side crank, $5,575, center crank, $5,800; The Russell Engine Co., $5,390; The Sheperd Engineering Co., $6,676; Dravo, Doyle & Co., Citizens' Bldg., $5,862; Erie City Iron Works, New England Bldg., $6,247; Buckeye Engine Co., New England Bldg., $6,780, 20 per cent. discount for educational purposes, net price, $5,424; A. L. Ide & Sons, $5,325; Ridgway Dynamo & Engine Co., $4,715; The Strong, Carlisle & Hammond Co., $4,050.

Mechanical Stokers and Boiler Setting—Detroit Stoker & Foundry Co., $4,250; The Under-Feed Stoker Co. of America, $4,255; Murphy Iron Works, $4,695.

HEATING AND VENTILATING. (Steam Piping, Boilers, Fans, Etc.)—Gravity System—Price, Dreher & Welker, 1532 Columbus Road, N. W., $49,395; The Becker-Seidel Co., 315 Champlain Ave., $44,879; Mathis Bros. Co., $53,492; The Bartlett Bros., Co., 8506 Lake Ave., N. W., $54,042; The R. T. Ford Co., $52,979; The Van Sickle & Warren Co., 717 Franklin Ave., $45,300; The Dewstoe & Brainard Co., 2076 East 22d, $55,600; The Chafer Co., 431 Champlain Ave., $5[illegible],250; Julius Roemer, 1239 Prospect Ave., $4[illegible],215, with national regulation, $49,110, with Powers or Johnson regulation, $49,505; J. & A. Thomson, Powers regulation, $49,291, Johnson Regulation, $49,691.

Vacuum System—Price, Dreher & Welker, $52,502.

Vacuum System—Paul—The Becker-Seidel Co., $3,625; Mathis Bros. Co., $56,785; The Bartlett Bros. Co., $57,822; The R. T. Ford Co., $48,190; The Dewstoe & Brainard Co.,

$48,190; The Dewstoe & Brainard Co., $60,000; The Chafer Co., $55,750; J. & A. Thomson, $52,886.

Vacuum System—Webster—The Becker-Seidel Co., $3,62[illegible]; Mathis Bros. Co., $55,992; The Bartlett Bros. Co., $57,822; The R. T. Ford Co., $2,[illegible]; The Van Sickle & Warren Co., $48,190; The Dewstoe & Brainard Co., $59,000; The Chafer Co., $55,750; Julius Roemer, $49,4[illegible]; J. & A. Thomson, $53,318.

Temperature Regulation—The Van Sickle & Warren Co., Powers, $3,700, Johnson, $4,100, National, $3,7[illegible].

Elevator—The Haughton Elevator & Machine Co., $3,[illegible]0, if single gear machine is used, deduct [illegible]00, if semi-steel guides are used, deduct $150, if semi-magnet control is used, deduct $200; The Edmonds Elevator Co., 519 Champlain Ave., N. W., $3,700; Marine Engine & Machine Co., 230 West 13th St., New York, N. Y., electric tandem gear, $4,712, electric single gear, $4,483, hydraulic plunger, $[illegible]; Otis Elevator Co., 17 Battery Pl., New York, electric passenger, $3,800, hydraulic passenger with pumping plant, $6,000.

TOLEDO, OHIO.—The Trustees of the Toledo Newsboys' Association have let contracts for the proposed Newsboys' building to be built on Superior St., between Cherry and Orange Sts., as follows: General contract to the H. J. SPIEKER CO.; plumbing to ROBERT RAITZ & CO.; drainage to CHARLES HERMANN; electrical equipment to the WINTERS ELECTRICAL CO.; installing house tank and pumping apparatus to YOUNG & SUMMERS. CALVIN RUSSELL will drill the artesian well to supply the swimming pool, baths and lavatories. Bacon & Huber, Archs., Spitzer Bldg., Toledo, who drew the plans for the building, will superintend the construction.

MADISON, IND.—Bids are asked by the Board of Commissioners for the Southeastern Hospital for the Insane at the office of the Commission, Room 81, State House, Indianapolis, Ind., until 10 a. m., April 30, for all labor and material necessary to complete the various buildings, structures, tunnels, heating, power and electrical equipment, water supply, plumbing, piping and sewer work for the Southeastern Hospital for the Insane, on premises located near the city of Madison, Jefferson County, Ind. Foltz & Parker, Indiana Pythian Bldg., Indianapolis, are Archs.

INDIANAPOLIS, IND.—The State Board of Health has condemned school buildings which will be replaced with new buildings in the following places: Otwell, Teetersburg, Pyrmont, Lewis, Scipio, Putnamville, Marco, Stilesville, Wheatland, New Augusta, Pennville, Dunkirk, Cutler, Lyons, Brooklyn, Pittsboro, Brownsburg, Windfall, Kempton, Mays, Markleville and New Winchester.

INDIANAPOLIS, IND.—Bids are asked until April 23 for the erection of a Y. M. C. A. building, to cost $300,000. Foltz & Parker, Pythian Bldg., are Archs. A. H. Godard is Gen. Secy.

FORT WAYNE, IND.—The Fort Wayne Scotish Rite Masons have decided to build a $75,000 temple. Bids will be received as soon as plans can be made and approved.

GRAND RAPIDS, MICH.—Supplementary bids were received as follows April 8 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., in response to a circular letter sent out to the two lowest bidders on a contract for the construction of a post-office building at Grand Rapids, Mich., stating the additional sum for which each bidder would use marble in lieu of sandstone and make other smaller changes in the specifications: Charles W. Gindele & Co., 3333 La Salle St., Chicago, original bid, $349,850; additional, $87,500. Wells Bros. Co., Monadnock Bldg., Chicago, $349,576; $75,000. Noted fully on March 26.

DETROIT, MICH.—A building for the Lewis School of Stammerers, 35 Adelaide St., will be erected on the north side of Adelaide St., between Woodward Ave. and John R. St., on a site with 150 ft. frontage. The walls will be of brick, with cut stone trimmings, the front wall to be of pressed brick. Oak and marble will be used in the interior finish. The plans were prepared by Joseph E. Mills, 510 Washington Arcade.

ROCK ISLAND, ILL.—Plans have been prepared by Clausen & Clausen, Archs., Davenport, Iowa, for a building to be constructed at Rock Island, for L. P. Best. Cost, $200,000.

KANKAKEE, ILL.—W. H. WILLIAMS, Chicago, has secured the general contract for a hospital building for the Illinois Eastern Hospital for the Insane, at Kankakee. Cost, $72,000.

RHINELANDER, WIS.—We are officially advised that bids will be received about July 20 for constructing a 3-story courthouse, to cost $100,000. It will be of stone fireproof construction, 120 × 95 ft. C. H. Tegen, Metropolitan Bldg., Manitowoc, Wis., is Arch.; Arthur Taylor is Chn. Board Comrs. Noted on March 5 and 26.

DES MOINES, IOWA.—We are officially advised that bids will be received after July 1 for constructing the proposed 3-story stone city hall here. It will be 74 × 230 ft., and will cost $350,000. Proudfoot & Bird, Crocker Bldg., Des Moines, are Archs.

BURLINGTON, IOWA.—The Board of Education, R. Turpin, Secy., has had plans prepared for a 2-story and basement high school building, to cost $130,000.

STILLWATER, MINN.—Bids are asked until April 18 by the State Board of Control, P. M. Ringdahl, Chn., St. Paul, for a 2-story brick, fireproof shop warehouse to be built at the new State prison at Stillwater, Minn. Cost, $100,000. C. H. Johnson, Manhattan Bldg., St. Paul, is Arch.

ATCHISON, KAN.—Bids probably will be received in May for the erection of the proposed high school. Cost, about $90,000. Calyer & Seddon, Gumbel Bldg., Kansas City, Mo., are Archs.; Nathan Veatch is Supt. City Schools.

DEVIL'S LAKE, N. DAK.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Devil's Lake, N. Dak., to the GENERAL CONSTRUCTION CO., Milwaukee, Wis., at $120,402. Time, Oct. 31, 1909. Noted fully on March 26.

SIOUX FALLS, S. DAK.—Bids are asked until 6 p. m., April 18, by S. J. Snyder, Treas., Sioux Falls College. The erection and completion of a 2-story and basement, stone and brick Science Hall Building for the Sioux Falls College at Sioux Falls. Joseph Schwarz is Arch., Sioux Falls.

COLUMBIA, MO.—We are officially advised that contract for erection of Agricultural Building on Horticultural Grounds from plans by Cope & Stewardson, Archs., 800 Security Bldg., St. Louis, Mo., has been awarded to C. L. GRAY CONSTRUCTION CO., St. Louis. J. G. Bobb is Secy., University of Missouri, Columbia.

ST. LOUIS, MO.—George H. Kennerly, Benoist Bldg., has prepared plans for an apartment house to be erected on Lindell Boulevard. It will have three stories and will be of brick, stone and reinforced-concrete construction. Cost, about $200,000.

LITTLE ROCK, ARK.—We are officially advised that a 2-story and basement library, 60 × 120 ft., is to be built at the corner of Louisiana Ave. and Seventh St., by the city of Little Rock. The building will be constructed of stone and terra cotta, fireproof, and will cost $86,000, including equipment. Edward L. Tilton, 32 Broadway, New York, N. Y., is Arch.; Charles L. Thompson, Arkansas Bldg., Little Rock, is Supt. Arch.

PORT ARTHUR, TEX.—We are officially informed that a 3-story hotel, 190 × 240 ft., of concrete construction, will be constructed at a cost of about $90,000; equipment, $20,000. Jan Van Tyen is Pres., Port Arthur Hotel Co.

PUEBLO, COLO.—Albert R. Ross, Arch., 542 Fifth Ave., New York, and G. W. Roe, Arch., Grand Opera House Block, Pueblo, are preparing plans for a 4-story court-house for the Pueblo County Commissioners, Pueblo. Cost, $400,000.

SEATTLE, WASH.—Preparations are being made by the Temple Baptist Church for erection of a building to cost about $150,000. H. F. Compton is Chn. Bldg. Com., and he has been instructed to make arrangements for the construction of the building as soon as possible. It is probable that the location will be Third Ave. and Cedar St.

J. F. Everett, Arch., Walker Bldg., Seattle, is completing plans for a 5-story hotel to occupy a lot 120 ft. square in Western Ave. The building is to be erected by Patrick H. McCoy, at a cost of $100,000. The hotel is to contain 170 rooms, and have the largest lobby of any hotel in the city.

NORTH YAKIMA, WASH.—The members of the Yakima Masonic Temple Association have decided to erect a building this year in North Yakima. Plans have been prepared by W. W. DeVeaux, North Yakima, associated with Heath & Twitchell. The building is to be of steel and concrete with cream-colored glazed terra cotta facing; the exterior after the Corinthian style of architecture, and the interior following the Ionic style. The estimated cost of the temple is $130,000.

CENTRALIA, WASH.—A 3-story reinforced concrete building is planned by S. H. Bloomer, to occupy the block on the north side of Tower Ave., between Center and Hanson Sts. The building will have a frontage of 630 ft. on Tower Ave. and will cost about $105,000.

TACOMA, WASH.—Bids were received as follows April 14, at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office, court-house and custom-house building at Tacoma, Wash.: William H. Maxwell, Spokane, Wash., $421,876, Nov. 1, 1910; Joseph Well, Tacoma, Wash., $449,260, Nov. 1, 1910; Northern Construction Co., Milwaukee, Wis., $423,100, Nov. 1, 1910; Campbell Building Co., Dooly Block, Salt Lake City, Utah, $414,457, 30 months.

SAN FRANCISCO, CAL.—Contracts for the proposed Y. M. C. A. building probably will be let this month and the structure completed within the year. The building is to be at the corner of Golden Gate Ave. and Leavenworth St. The plans are already in the hands of the contractors. The election of trustees for the ensuing year resulted in John F. Merrill, Charles W. Pike, T. G. Crothers, Robert Bruce, A. M. Simpson, George A. Mullin, C. S. Wright, Edward Coleman, Rolla V. Watt, I. J. Truman and B. C. Wright being elected, with Edward Coleman as Chn. The trustees contemplate the erection of a second building to be located in the Mission as soon as the site at the corner of Mason and Ellis Sts. is sold. Rolla V. Watt is Chn. Bldg. Com.

The Prager Co., Inc., 1068 Market St., will erect a Class A building at Market and Jones Sts., is is stated.

The Methodist Book Co. has applied for a permit to erect a 5-story building on City Hall Ave., to cost $90,000.

SAN FRANCISCO, CAL.—A 10-story steel frame Class A building, with an ornamental exterior, is to be erected immediately at the corner of Sutter and Kearny Sts., by the Adams Estate Co. The plans of Washington J. Miller, Arch., 511 Eddy St., call for a commercial structure, the first two stories of which are to be of ornamental iron and the upper stories finished in glazed pressed brick and terra cotta. The floors and walls will be of reinforced concree.

LOS ANGELES, CAL.—A. L. Healy, Arch., Henne Bldg., Los Angeles, is preparing plans for a 10-story building to occupy the corner of Second and Main Sts. The building will be reinforced concrete. In the basement will be a plant to furnish power for itself and any adjoining office building that may need it. A well will be sunk making water supply independent of city service. About $500,000 will be expended. Thomas Higgins is owner.

TORONTO, ONT.—A. A. Post, Arch., Mooney Bldg., is preparing plans and will receive bids after May 1 for a 4-story and basement addition, 130 × 50 ft., to hospital building, with two 4-story and basement wings, 40 × 60 ft. each, for St. Michael's Hospital, Toronto.

WINNIPEG, MAN.—The contract for the Dominion Government examining warehouse, to be erected here, has been awarded to the J. McDIARMID CO., Langside and Portage Sts., Winnipeg. Price, $276,000.

Bids will be received by the Winnipeg Theater Co. for erection of a theater to cost $150,000. H. C. Bristow is Arch.

WINNIPEG, MAN.—J. D. Atcheson, Arch., Northern Bank Bldg., is preparing plans for a 4-story brick and steel apartment and store building to be erected at the corner of Edmonton St. and Portage Ave. It will provide accommodation for seven stores.

SASKATOON, SASK.—The Grand Trunk Pacific Ry. and Canadian Northern Ry. companies will build a union depot here. M. H. McLeod, Gen. Mgr. of the Canadian Northern, Winnipeg, Man., is in charge.

REGINA, SASK.—The City Council has decided to ask for plans for the proposed hospital, to cost $100,000, at once.

The School Board will call for competitive designs for the proposed school, to cost $100,000.

WATER SUPPLY—IRRIGATION.

•HOLYOKE, MASS.—The following bids were received on April 10 by the Board of Public Works for (a) cast-iron pipe, and (b) special castings: Camden Iron Works, Ninth and Norris Sts., Philadelphia, Pa., (a) Class E, weighing 2,260 lbs. per length, $26.70 per net ton; Class B, 1,760 lbs. per length, $26.70; (b) $2.75 per 100 lbs.; M. J. Drummond & Co., 182 Broadway, New York, (a) Class E, $25; Class B, $26.70; (b) $2.50; John Fox & Co., 253 Broadway, New York, (a) Class E, $24.90; Class A, 1,610 lbs. to the length, $24.90; Class B, $24.75; (b) $2.40; Central Metal & Supply Co., (a) Class E, $25.20; Class A, $26.50; Class B, $26.25; (b) $2.65; CHARLES MILLAR & SON CO., Utica, N. Y., (a) Class E, $24.20; Class A, $24.20; Class B, $24.20; (b) $2.50 (awarded contract). Oscar C. Ferry is Asst. Clk. Bd.

METHUEN, MASS.—THE LAIDLAW, DUNN, GORDON CO., was awarded the contract on April 3 by the Water Board for installing the pump at the pumping station, at about $5,950.

•WOONSOCKET, R. I.—Bids are asked until 2 p. m., April 23, by the Board of Sewer Commissioners for excavation work necessary and furnishing the material for the construction of a filter bed, about 135 ft. by 250 ft., and five feet deep. Frank H. Mills is City Engr.

ALBANY, N. Y.—The State Assembly on March 30, passed a bill authorizing this city to issue $700,000 bonds for the improvement of the city water supply.

SYRACUSE, N. Y.—Plans are being prepared for a 30-in. conduit line, 19 miles in length, and for a distributing reservoir. Bids will be asked during the summer. George H. Beebe is Chief Engr. and Supt. of W.-Wks. Dept.

SCHENECTADY, N. Y.—C. W. Hollister, of Schenectady, has submitted the lowest bid for installing a drainage system at the State Armory. F. A. McNeely is Secy. State Bd. of Armory Comrs., Albany, N. Y.

NEW YORK, N. Y.—The following are the bids opened on April 1 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for (A) c.-i. pipe, (B) branch pipe, (C) special castings: M. J. Drummond, Fulton St. and Broadway, New York, (A) $24, (B) $47.50; N. P. Taylor Co., 21 Park Row, (C) $43.45; C. Miller Son Co., (A) $24.60, (B) $50; Elmira Foundry Co., Elmira, (B) $49, (C) $41.75; Warren Foundry & Machine Co., 170 Broadway, New York, (A) $25, (B) and (C), $50; John Fox & Co., 235 Broadway, New York, (A) $24.73, (B) $47, (C) $37; U. S. Cast Iron Pipe & Foundry Co., 71 Broadway, New York, (A) $23.25, (B) and (C) $50.

The following are the bids opened on April 1 for furnishing, delivering and laying water mains in 64th, 70th and Exterior Sts., under the East River to Blackwell's Island and on Blackwell's Island: H. E. FOX, 1983 Madison Ave., New York, $38,267 (awarded contract); Hanover Contracting Co., 21 Park Row, $40,728; L. D. Gregory, 125th St. and First Ave., $44,121; P. Goodman, Lincoln Ave. and 133d St., $54,760; John Cornwell, Jr., 69 East 127th St., $44,597.

•ROME, N. Y.—THE CAREY CONSTRUCTION CO., Rome, N. Y., has been awarded the contract by the Board of Water and Sewer Commissioners for the construction of the dam reservoir, gate house, tunnel and aqueduct for the Fish Creek water supply for this city, at $214,618. Noted April 2 as lowest bidder.

JERSEY CITY, N. J.—The lowest bid opened on March 30 by the Board of Street and Water Commissioners for water pipe was that of R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., at $47,000. C. H. Van Keuren is Ch. Engr. Bd.

RENOVO, PA.—The Council has decided to have the water main extended from the present intake dam to a point 5,000 ft. farther up Drury's run, where a new dam with a capacity of 3,000,000 gallons will be constructed. The new reservoir will be 400 ft. long, 100 ft. wide, and 16 ft. high.

READING, PA.—The Water Board on April 2 awarded the contract for laying 6,900 ft. of 36-in. water pipe to H. E. AHRENS & CO., at $8,252.

LOCH RAVEN, MD.—Plans and specifications are being prepared by Wyatt & Nolting, Baltimore, Md., for the construction of a reservoir at the Maryland School for Boys, Loch Raven, Md.

ALBANY, GA.—Bids are asked until April 18 by the City Council for furnishing and delivering f. o. b. Albany, c.-i. pipe, specials, valves, etc., for the Arcadia water main extension.

ATLANTA, GA.—Scott Bros. submitted the lowest bid on April 3 for the excavation work to be done in the new reservoir, at $19,000. The Special Committee of Council has recommended this firm for award.

LOUISVILLE, KY.—The City will have plans prepared and may soon begin the construction of a 16-in. water main seven miles in length, estimated to cost $100,000. The work will also include the laying of 6 and 8-in. water mains in various streets. S. Bent Russell is Ch. Engr.

ZANESVILLE, OHIO.—The citizens on April 4 voted in favor of issuing $25,000 of bonds for water-works. H. H. Kennedy is City Audr.

SANDUSKY, OHIO.—Bids are asked until May 1 by the Board of Public Service for furnishing and installing two 6,000,000 gallon centrifugal pumps, with direct-connected reciprocating or turbine-condensing engines, to be operated with 80 lbs. steam pressure, with a total pumpig head of 25 ft., providing for about 9-ft. suction and 16-ft. discharge, including foundation, suction and discharge pipes and valves connected therewith, automatic oiling devices and necessary gages; also a duplex air compressor, steam driven, duplex steam cylinders, duplex compound air cylinders, with fly-wheel connections, to be constructed to deliver 1,000 cu. ft. free air at a 5-lb. pressure, with steam boiler pressure at 80 lbs., to operate with about 150 revolutions per minute.

PLEASANT HILL, OHIO.—The Council has passed an ordinance providing for the issuing of bonds for the construction of a water plant and sewer system. A. C. Reed is Village Engr.

DRESDEN, OHIO.—The citizens on April 5 voted in favor of constructing a municipal water-works plant.

MASSILLON, OHIO.—Bids are asked until noon, April 24, by the Board of Public Service for furnishing water for city purposes. A. Howald is City Engr.

SAGINAW, MICH. — The Water-Works Board has recommended the construction of a new pumping station. Estimated cost, about $12,000.

•MILAN, MICH.—Bids are asked by W. P. Gregory, City Clk., until 1 p. m., May 4, for the construction of a water system.

EVANSTON, ILL.—Contracts for water-works improvements have been awarded as follows: To J. G. FALCON, for laying submerged intake; to MASSILLON IRON & STEEL CO., Massillon, Ohio, for pipe; to the RAYMOND LEAD CO., for lead. J. H. Moore is Comr. Pub. Wks.

JUNEAU, WIS.—Bids are asked until May 4 by the Horican Drainage District for the construction of ditches and for improving the channel of Rock River, and removing bridges and dam in Horican Drainage District.

WAUKESHA, WIS.—The Board of Water Commissioners on March 31 let the contract to the ADVANCE CONSTRUCTION CO., of Waukesha, for laying water mains in the unimproved streets.

The contract for laying the mains on the paved streets was let to P. H. IGLEHART, of Morgan Park, Ill.

TIPTON, IOWA.—Bids are asked by J. E. Bartley, Mayor, until 7 p. m., May 4, for the construction of a concrete reservoir of about 100,000-gallon capacity.

WHITE BEAR (White Bear Lake post-office), MINN.—Bids are asked until 8 p. m., May 8, by the village for the extension of water mains, the work to include 1½ miles of pipe line, hydrants, valves and specials. Oscar Claussen, German American Bank Bldg., St. Paul, is Engr.-in-Charge.

CONCORDIA, KAN.—We are officially advised that on April 7 the citizens voted in favor of issuing $42,000 of bonds for the extension and improvement of the water-works system. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.-in-Charge. E. A. D. Parker is City Engr.

DESHLER, NEB.—M. A. Earl & Co., of Muskogee, Okla., have been selected to prepare plans for the construction of water-works. Estimated cost, about $16,000.

WYNCOTE, WYO.—The Pathfinder dam, North Platte irrigation project, Nebraska-Wyoming, is now 81 ft. above foundation and rising at the rate of 15 ft. per month. During March 3,000 cu. yds. of masonry were laid.

HARDIN, MONT.—The contract for the construction of a water system has been awarded to the PIPER CONSTRUCTION CO., of Dillon, Mont. More than 1,200 ft. of 6-inch mains, together with 4-inch pipe will be laid.

ALBA, MO.—A $12,000 bond issue has been voted by this city for the construction of water-works.

PORT ARTHUR, TEX.—The Port Arthur Water Co. will install a filtration plant at the water-works plant, estimated to cost about $75,000.

HOUSTON, TEX.—The city may purchase a pump for the municipal water plant to have a minimum capacity of 15,000,000 gallons in 24 hrs., and to cost about $65,000. Bids will probably soon be asked.

CANON CITY, COLO.—The Council has passed an ordinance providing for the issue of $225,000 of bonds for the water system.

FORT MORGAN, COLO.—The Badger Creek Reservoir Co. has been incorporated with a capital stock of $172,000. A. K. Clarke is interested.

GRAND JUNCTION, COLO.—Bids are asked by the Orchard Mesa Irrigation District until 10 a. m., April 25, for the construction of an irrigation system near this city. It is a high lift pumping proposition and the bids asked for include the price of pumps, pump house, pipe, open canal laterals, necessary masonry at intake, and 375 second feet of water. Frank Schwalbach is Consulting Engr.

CARLSBAD, N. MEX.—Water is now being furnished over the entire canal system of the Carlsbad irrigation project, New Mexico. At the present time 8,443 acres have been qualified for water and the area is being rapidly increased. From the present prospects it is believed that water will be furnished to 10,000 acres of this project during the present season.

TACOMA, WASH.—The contract for a pump, motor and other machinery needed on the Maplewood Springs extension has been awarded to the HALLIDAY MACHINERY CO., Seattle, Wash., at $17,996 for the Byron-Jackson pump. I. L. Cunningham is Engr.

SPOKANE, WASH.—The Board of Public Works on April 1 awarded to the NATIONAL IRON WORKS the contract for the erection of the standpipe at the corner of 29th and Drand Sts., in the Manito Park District, at $7,977.

KLAMATH FALLS, ORE.—The Klamath Light & Water Co. will construct two additional reservoirs and install a centrifugal pump having a capacity of 500 gallons per minute and capable of furnishing a pressure of 500 or 600 lbs. The pump will be operated by a 600-HP. motor and weigh 11,000 lbs. Work on the concrete foundations for the new pumping station will begin at once and it is expected to have the building, which will be of wrought iron, completed and ready to receive the pump by June 1. The company will also lay about 6,000 ft. of 6-inch pipe besides the regular extensions of their system made necessary by the growth of the town. O. B. Gates is Mgr. Klamath Light & Water Co.

*KLAMATH FALLS, ORE.—We are officially advised that the following bids were received on April 1 by the U. S. Reclamation Service, Portland, Ore., for the construction of the work under (a) Schedule 1, (b) Schedule 2, (c) Schedule 3, of the South branch canal, located southeast of Klamath Falls, Klamath project, Oregon-California: Mahoney Bros., Crocker Bldg., San Francisco, Cal., (a) $16,958, (b) $64,008, (c) $15,534, total, $96,502; Maney Bros., Winnemucca, Nev., (a) $19,195, (b) $42,608, (c) $17,193, total, $78,996 (all three schedules or none).

FORT STEVENS, ORE.—Bids are asked in triplicate by the Constructing Quartermaster, U. S. A., until 2 p. m., April 30, for the construction of a cistern.

LOS ANGELES, CAL.—The Los Angeles Aqueduct Board has completed the engineering part of specifications for the 23-mile Jawbone section of the aqueduct and will soon ask for bids from private contractors to perform the work. The construction of the Jawbone section will require 19 tunnels to be driven, and besides these open conduit and steel flumes, there will be three long siphons, known as Dove Spring, Jawbone and Pine canyons. Siphons will be constructed of riveted steel pipe and the Jawbone siphon, 6,000 ft. long, will have a thickness varying from ¼ in. to ¾ in.

YUMA, ARIZ.—The U. S. Reclamation Service on March 26 inaugurated a plan which will increase the present irrigable acreage to at least 30 per cent. of the valley below Yuma. By constructing a new canal head for the old gravity canal a distance of one mile and a half the grade can be lowered two feet. This increases the gravity water supply and decreases the work of the new pump so that from 3,000 to 5,000 additional acres can be covered. From 13,000 to 15,000 acres will probably be under water after June 1.

OGDEN, UTAH.—For the purpose of operating the Fremont canal, the Warren Irrigation Co. has been organized. Articles of incorporation were filed with the County Clerk on March 25. J. M. Wade is Treas. Joseph M. Folkman is Secy.

PROVIDENCE, UTAH.—The Peerless Water Co., of Providence, filed a certified copy of its articles of incorporation in the office of the Secretary of State on March 27. The company will establish a water-works system at Providence. Capital stock, $5,000. Conrad Alder is Secy.

MOUNTAIN HOME, IDAHO.—Articles of incorporation have been filed for the Medbury Irrigation Co. of Mountain Home, Elmor County, with a capital stock of $10,000. The incorporators are Edwin A. Page, W. C. Howie and W. F. Bechtel.

GODERICH, ONT.—Bids are asked by W. T. Murney, Chn. Water and Light Comn., until April 20 for a covered reinforced concrete sedimentation basin; and for an 18-in. cast-iron flanged pipe, special castings, valves, etc.

BRANTFORD, ONT.—Bids are asked until noon, April 24, by F. W. Frank, Secy. Bd. of Water Comrs., for the construction of a storage reservoir and furnishing and laying pipe. T. Harry Jones is City Engr.

OSNABRUCK CENTRE, ONT.—Bids are asked by H. E. Hodgins, City Clk., until noon, June 1, for the construction of the Grantley creek drain. Estimated cost, $14,107. Magwood & Walker, Cornwall, Ont., are Engrs.-in-Charge.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BRIDGEPORT, CONN.—THE PIERCE MFG. CO. was awarded the contract on April 7 by the Board of Public Works for the construction of the Bishop Ave. sewer, 900 ft. long, at 88 cts. per lin. ft.

BINGHAMTON, N. Y.—The city will install a storm water sewer system. Plans are now in preparation. John A. Giles is City Engr.

MT. KISCO, N. Y.—Bids will probably soon be asked by the village for the construction of pipe sewers estimated to cost about $100,000. John M. Farley, White Plains, N. Y., is Engr.

LANCASTER, N. Y.—The Sewer Commission will have plans prepared for the construction of a sewerage system. Bids will be asked about July 1.

RYE, N. Y.—G. Everett Hill, Consulting Engr., 156 Fifth Ave., New York, is preparing plans for the construction of a sewer system and disposal plant for the village. Bids will soon be asked. George L. Henderson is Village Clk.

BUFFALO, N. Y.—John Miller, 802 Ellicott St., Buffalo, has submitted the lowest bid, at $17,476, for the construction of a 42-in. brick and a 39-in. iron pipe sewer from the northeast side of Potters Road across Cazenovia Park to about 900 ft. southeast of Abbott Road. Francis G. Ward is Comr. Pub. Wks.

NEW YORK, N. Y.—Bids are asked until 2 p. m., April 23, by John F. Ahearn, Pres. Boro. of Manhattan, for constructing sewers and appurtenances in Ninth Ave. and Columbus Ave.

TRENTON, N. J.—Bids are asked until 8 p. m., April 21, by the Common Council for the construction of a sewer in Stuyvesant Ave., from Hoffman Ave. to Hermitage Ave. Harry B. Salter is City Clk.

ALIQUIPPA, PA.—Bids are asked by Trimble & Miller, Boro. Engrs., until 5 p. m., April 20, for the construction of a sanitary sewer system.

FRANKLIN, PA.—E. T. SUTLEY has been awarded the contract for constructing the surface sewer in the Third ward at $7,619.

DUNMORE, PA.—The contract for the struction of Section "G" of the sewer system has been awarded to O'BOYLE BROS., of Dunmore. L. S. Marsh is Borough Secy.

OIL CITY, PA.—J. M. LESHER of Oil City, has been awarded the contract for constructing the Halyday St. sewer for the Central Ave. sewer at $6,217.

*ST. MARYS, PA.—We are officially advised that the following bids (not including the furnishing of the pipe) were received on March 30 by L. C. Hanhauser, Borough Secy., for the construction of a system of sanitary sewers, as follows: 1,026 ft. of 18-in. double strength vitrified sewer pipe, 3,531 ft. of 15-in. double strength vitrified sewer pipe, 5,605 ft. of 12-in. double strength vitrified sewer pipe, 6,189 ft. of 10-in. double strength vitrified sewer pipe, 40,852 ft. of 8-in. double strength vitrified sewer pipe; 184 manholes, 38 flush tanks, and for furnishing terra-cotta pipe and fittings to be used in the above work: F. S. Smedley and F. L. Mallen, Oil City, Pa., $65,714; Simpson & Willis, Erie, Pa., $56,338; C. T. Shepard & Co., Niagara Falls N. Y., $53,414; D. M. Rosser Engineering & Construction Co., Kingston, Pa., $59,354; John Schaffner, Butler, Pa., $64,513; Frank Greco, Galeton, Pa. $69,541; Saupp & Drhew, Altoona, Pa., $43,046; Westmoreland Construction Co., Greensburg, Pa., $57,828; Busch & Stewart, Williamsport, Pa., $53,860; M. O'HERRON & CO., South First and McKean Sts., Pittsburg, Pa., $45,174 (awarded contract); Joseph McCormick Co., Erie, Pa., $63,649; Achilles, Chiocio, Sheffield, Warren County, ing Co., Pittsburg, Pa., $51,828; Rinehart Bros., East Liverpool, Ohio, $56,319. T. Chalkley Hatton, Wilmington, Del., is Consult. Engr.

*PHILADELPHIA, PA.—Specifications are on file at the office of Engineering News, New York, for the construction of main sewers under Schedule "B." Bids are asked until April 22.

WASHINGTON, D. C.—Specifications are on file at the office of Engineering News, New York, for the construction of pipe sewers. Bids are asked until April 20.

*WASHINGTON, D. C.—Bids are asked by the Commissioners of the District of Columbia, until noon, April 27, for constructing a trunk sewer.

*WASHINGTON, D. C.—Bids are asked by the Commissioners of the District of Columbia until noon, April 29, for the construction of sewers in the District of Columbia.

ROANOKE, VA.—Bids are asked until noon, May 4, by W. E. Thomas, Clk. of the Council, for the construction of sewers. W. B. Bates is City Engr.

EAST POINT, GA.—The city has engaged E. H. Davis, Griffin, Ga., to prepare plans and specifications for the construction of a sewerage system and water-works.

KNOXVILLE, TENN.—Plans are being prepared for extending the First Creek sewer main. C. C. Nelson is City Recdr. S. D. Newton is City Engr.

*LOUISVILLE, KY.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of Section A of the southern outfall sewer system. Bids are asked until April 29. J. B. F. Breed is City Engr.

GALION, OHIO.—Plans and specifications are being prepared for the construction of a sanitary sewer system for this city.

MARION, OHIO.—Bids are asked until April 21 by the Board of Public Service for constructing a sanitary sewer and cellar drain in a portion of Mary St. and alley. Bids on labor and material must be submitted separately. Charles M. Tobin is Clk. Bd.

COLUMBUS, OHIO.—Bids are asked by E. W. Hirsch, Secy. Bd. Pub. Serv., until April 22 for the construction of sewers in Center St., from Broad to State Sts.; in Kent Ave., from Ford to Kimball Place; and in Kimball Place, Elba alley and Livingston alley.

STEUBENVILLE, OHIO.—Bids are asked by the Board of Public Service until noon, April 27, for the construction of a 15-in. pipe sewer in the alley between Franklin and Mooney Aves. and on Mooney Ave.; for the construction of a 20-in. pipe sewer in Franklin Ave., from the manhole west of the railroad to the intersection of hospital sewer at Fourth St. H. G. Simpson is Clk. Bd.

NILES, OHIO.—Bids are asked by James Tregaskis, Clk. Bd. Pub. Serv. until April 16 for the construction of brick and pipe sewers. Estimated cost, $13,000.

WOOSTER, OHIO.—Bids are asked by the Board of Public Service until noon, April 20, for the construction of a sewer. Bond or certified check $500. Plans, etc., at office of Board. W. G. Whitmore is Clk.

GIRARD, OHIO.—The contract for constructing sewers and changing the site of the sewage disposal works has been awarded to C. L. ALLEN, of Marion, at $20,000. William Wilson, Elks Bldg., Youngstown, Ohio, is Engr.

LANCASTER, OHIO.—Bids are asked until noon, April 21, by the Board of Public Service for the construction of various sewers in Storm Water District No. 3. George Cunningham is Clk. Bd.

PAUL & KERSHNER, Dayton, Ohio, have been awarded the contract, at about $40,000, for the construction of a concrete sewer.

FORT WAYNE, IND.—The Board of Public Service awarded contracts on April 3 for the construction of vitrified clay pipe sewers as follows: For sewers in Creighton Ave. and in alleys south of Fisher St., west of Fairfield Ave. and south of High St., to ANTON RIEG; for sewer in Pontiac St. to FRED H. FUELLING.

GAS CITY, IND.—Plans are being prepared for the construction of a sewer system for the city.

NILES, MICH.—The Board of Public Works has awarded contracts for the construction of sewers to JOHN H. ALGATE, at $4,990, and C. H. DEFREES, at $3,164. Carl F. Whitstone is Clk. Bd.

LOCKPORT, ILL.—Plans are being prepared for construction of a sewerage system in Will County for this city.

CAIRO, ILL.—Bids are asked by the Board of Public Improvements until 10 a. m., April 20, for the construction of a vitrified pipe sewer in Poplar St. Ernest Nordman is Secy. Bd.

JOLIET, ILL.—ROSS & CURTIS have been awarded the contract by the Board of Local Improvements for the construction of the Meeker and Collins Sts. sewer at $6,391.

BELOIT, WIS.—The following bids were received on April 3 by the city for the construction of the West Side sewer system: McGavock Contracting Co., Beloit, $12,824; A. Vandewalker, Belvidere, Wis., $10,550; Andrew Thompson, Racine, Wis., $10,200; N. Reichart, Racine, Wis., $9,833.

MERRILL, WIS.—Bids are asked by the Board of Public Works, until 7.30 p. m., April 28, for the construction of a sewer. B. T. Lambert is City Clk.

WAPELLO, IOWA.—The City Council on April 2 awarded the contract for the construction of a sewer in Isett Ave. and Van Buren St. to the COOK CONSTRUCTION CO., Des Moines, Iowa, at $1.47 per ft.

ST. JOSEPH, MO.—An ordinance has been passed by the City Council authorizing the issue of $345,000 of bonds for the extension of the main sewer. W. E. Spratt is Mayor.

CAPE GIRARDEAU, MO.—C. C. Hawley, City Engr., is preparing plans for the construction of sewer system for the entire city. Estimated cost, about $140,000. Christian F. Betten is City Clk.

JEFFERSON BARRACKS, MO.—The bid of E. H. Abadee & Co., St. Louis, Mo., at $5,494, for the construction of water and sewerage system, has been recommended to the Quartermaster-General for award.

ORANGE, TEX.—The Orange Sewer Co. has awarded the contract to the POTS SEWER PIPE CO., Texarkana, Tex., for four carloads of sewer pipe.

ALVA, OKLA.—The following are the bids received March 26 by the city for the construction of the sewerage system: Hamm Plumbing Co., Enid, Okla., $8,440; N. S. Sherman Co., El Reno, Okla., $8,246; C. T. Derr, Oklahoma City, $7,807; A. O. Lund and G. W. Hinds, Oklahoma City, $8,364; Stokes Boss Co., Oklahoma City, $7,984; T. C. BROOKS & SON, Jackson, Mich. $7,437 (awarded contract); L. B. Petty, Paola, Kan., $7,548; P. F. Connely & Co., El Reno, $7,745; Coppage & Durham, Fort Worth, Texas, $9,524. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.-in-Charge.

SAN JOSE, CAL.—Bids are asked until April 20, by Roy E. Walter, City Clk., for constructing a sewerage system in the Fourth Ward, requiring about 19,638 ft. pipe sewers, from 6 to 21 ins. in diameter, together with all manholes, flush tanks, branches, etc.

SAN BERNARDINO, CAL.—The City Council has awarded the contract to the W. G. ROSS CO., for the construction of the H St. sewer from First to Tenth Sts., at 39 cts. per ft.

GARBAGE DISPOSAL.

HOLYOKE, MASS.—The Board of Public Works has awarded the contract for collecting garbage for a period of three years to ERNEST E. PROULY at $4,890. Other bidders were: James T. Griffin, $6,000; William Wilhelm, $5,976; Jeremiah J. Bynan, $6,000; George Archambault, $5,910; Octave Bergeron, $5,100.

BRISTOL, CONN.—Bids are asked by the borough until April 21 for street sprinkling for the season of 1908.

NEW YORK, N. Y.—Bids are asked until 3 p. m., April 23, by the Park Board for furnishing and delivering one 15-ton road roller and one 12-ton road roller. Henry Smith is Pres. Bd.

ORANGE, N. J.—Bids for removing and disposing of the city garbage, ashes and refuse for periods of three and five years have been received as follows: Frank A. Maloney, $57,500 on the three-year term, $104,500 on the five-year term; Michael Loprete, East Orange, N. J., $61,750 for three years, $107,750 for five years; Gustave C. Pfeiffer, Newark, N. J., $66,900 for three years, $117,000 for five years.

MANCHESTER, VA.—The city contemplates constructing a plant for the incineration of garbage and street refuse.

CINCINNATI, OHIO.—Bids are asked until noon, May 7, by Edwin [illegible], City Clk., for the collection, removal and disposal of garbage, dead animals, etc., for periods of one and five years after J[illegible] 1908.

GALVESTON, TEX.—The city will erect a crematory, 48 × 25, and having a capacity of 25 tons every 24 hrs. Estimated cost, $15,000.

SAN BERNARDINO, CAL.—The contract for sprinkling the streets of the city for the coming year was awarded by the Council on March 30 to W. C. LONG, at 34 cts. per hour for each team employed. The only other bid was that of the J[illegible] McNair Paving Co. at $3.50 per day of [illegible] hours.

OAKLAND, CAL.—WALL[illegible]OS., of Alameda, Cal., were awarded the contract by the Board of Public Works on A[illegible]4 for the removal of the garbage of Oakland [illegible] three miles out to sea, at $4,130 a month, figured on the basis of 300 tons of garbage a day, the cost being 45 cts. a ton. F. C. [illegible]ner is City Engr.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—W. [illegible]A & SON, of Quincy, Mass., have been awarded the contract for furnishing the city with 375,000 paving blocks at $63 per M.

NEWINGTON, CONN.—The town has voted to macadamize the road running west and southerly from Andrew Johnson's place; the State road on Main St., from Champan's Corners, and to stone the New Britain road from Black Oak Hill, beginning at the termination of the State road westerly to the overhead bridge near the New Britain line; also Robbins Ave. west from S[illegible] St., to the Ten Rod Road, and southerly to the New Britain road.

WILLINGTON, CONN.—Bids are asked by the Board of Selectmen until 3 p. m., April 17, for the construction of three sections of highway, 7,480 ft. on the Stafford road, 3,700 ft. on the South Willington road, and 14,350 ft. on the East Willington road.

HARTFORD, CONN.—Maps have been received at the State Highway Commissioner's office from A. B. Hill for the improvement of 33,800 lin. ft. of highway on the Middletown turnpike from North Branford to Durham, and from Chandler & Palmer, Consulting Engrs., Norwich, Conn., for the improvement of 17,000 lin. ft. of highway on the Occum and Baltic roads from Taftville to the Sprague town line; also 2,200 lin. ft. on the Scotland road, Norwich, from Huntington Ave. towards Baltic.

HARTFORD, CONN.—The following maps for the improvement of state roads have been received by the State Highway Commissioner for attention preparatory to advertising for proposals: From Max Unklebach, 4,725 ft. on the Beach Swamp road in the town of Berlin; from John Egan, 15,300 ft. on the main highway from Hartford to Springfield, in the town of Enfield.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply, Albany, until 3 p. m., April 20, for the improvement of Broad St., from the south line of Second Ave. to the north line of Seymour Ave.; and for the improvement of McCarthy Ave., from the west line of South Pearl St. to the east line of Browne St., the work including grading, curbing and paving the carriageways with granite blocks, repairing and laying sidewalks with flags and vitrified bricks, building receiving basins, etc.

BUFFALO, N. Y.—Bids for street paving were opened on April 1 by the Department of Public Works as follows: For paving Eagle St. from Pine to Emslie St., with asphalt, German Rock Asphalt & Cement Co., $27,350; with stone, German Rock Asphalt & Cement Co., Morgan Bldg., Buffalo, $44,020; with shale brick, L. H. Gipp Construction Co., $29,300; with brick, L. H. Gipp Construction Co., $30,700; paving Niagara St., from Hertel Ave. to the Cornelius Creek bridge, with asphalt, Barber Asphalt Co., 330 Ellicott Sq., Buffalo, $15,221; with stone, German Rock Asphalt & Cement Co., $27,770; with shale brick, L. H. Gipp Construction Co., $17,700; with brick, L. H. Gipp Construction Co., $18,600; paving Elm St., from Swan to Clinton Sts., with asphalt, German Rock Asphalt & Cement Co., $10,890; with stone, same firm, $17,870; with shale brick, L. H. Gipp Construction Co., $12,300; with brick, L. H. Gipp Construction Co., $12,700; paving Cedar St., from Swan to William Sts., with asphalt, H. P. Burgard, $14,000; with stone, German Rock Asphalt & Cement Co., $23,718; with shale brick, L. H. Gipp Construction Co., $15,500; with brick, same firm, $16,300; repaving and widening Sycamore St., from Fillmore Ave. to Walden Ave., repaving, with asphalt, German Rock Asphalt & Cement Co., $19,000; with stone, L. H. Gipp Construction Co., $35,000; with shale brick, same firm, $23,900; with brick, same, $24,900; widening, with asphalt German Rock Asphalt & Cement Co., $14,360; with stone, F. V. E. Bardol, $21,200; with shale brick, same, $13,800; with brick, same, $15,000. Francis G. Ward is Comr. Pub. Wks.

NEW YORK, N. Y.—Bids are asked until 2 p. m., April 23, by J. W. Stevenson, Comr. of Bridges, for constructing the foot-'alk flooring of the Blackwells Island bridge over the East River, between the Boroughs of Manhattan and Queens.

NEW YORK, N. Y.—The Board of Estimate and Apportionment on April 11 approved the plan to open and extend Roebling St., in Williamsburg, from Broadway to Division Ave., to create a new approach to the Williamsburg bridge. The improvement will cost about $1,000,000, and one-quarter of that sum will be levied on the property owners along the route.

PLATTSBURGH, N. Y.—Bids are asked until April 17 by the Board Public Works for furnishing material and constructing between 3,560 and 4,000 sq. yds. of asphalt block pavement upon Margaret St., and between 1,100 and 1,300 lin. ft. of concrete curb along paved portions of streets.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 29, by Bird S. Coler, Boro. Pres., for regulating, grading and laying sidewalks on Carroll St., from Rogers Ave. to Nostrand Ave. and on 68th St. from Third to Fourth Ave.

FORT TOTTEN, N. Y.—Bids are asked by the Constructing Quartermaster until 10 a. m., April 17, for the construction of a macadam road and cement walks with necessary grading and drain at the entrance to Fort Totten. Bids should be made on ordinary paper and need no guarantee.

ALBANY, N. Y.—Bids are asked by Frederick Skene, State Engr. and Surv., until noon, May 4, for the completion of work on the following highways: Road No. 384, Section 1, town of Fleming, Cayuga County; Auburn-Seneca Falls Road, Section 1, No. 590, in the town of Aurelius, Cayuga County; and Little Falls-East Creek Road No. 456 in town of Manheim, Herkimer County.

*RIVER VALE (Westwood post-office), N. J.—Bids are asked until 3 p. m., May 7, by the Township Committee for macadamizing River Vale Ave., Demarest Ave., Cedar Ave., and Piermont Ave. George H. Seaman is Chn. Com.

ASBURY PARK, N. J.—The following bids were received on March 30 by the Common Council for paving Cookman Ave., from Main St. to Grand Ave., Mattison St., from Main St. to Cookman Ave., and Bond St., from Cookman Ave. to Summerfield Ave., approximately 14,500 sq. yds. of paving and 5,400 ft. of curbing, the vitrified block bids to be under a 5-yr. guarantee: J. F. Shanley & Co., Jersey City, N. J., vitrified block (Metropolitan), $2.67 per sq. yd.; (Auburn), $2.37; (Saxton), $2.49; wood block (U. S. creosote), $4.25; curbing, earth, 5 cts. per lin. ft.; concrete, 35 cts.; without guarantee same prices, except on U. S. creosote blocks, at $3.90. Van Kewren & Sons, Jersey City, N. J., vitrified block (Corning), $2.60; (Kushequa), $2.49; curbing, earth, 5 cts.; concrete, 25 cts; Without guarantee—(Corning), $2.54; (Kushequa), $2.37. B. F. Suweeten & Son, Camden, N. J., vitrified block (Cowans), $2.65; (Shawmut), $2.59; wood block (American), $3.55. Without guarantee—(Cowans), $2.52; (Shawmut), $2.46; (American), $3.38. Nolan & Horning, West Hoboken, N. J., vitrified block (Metropolitan), $3; (Corning), $2.65; (Grafton), $2.64; (Jamestown), $2.65. Without guarantee (Metropolitan), $2.95; (Corning), $2.60; (Grafton), $2.60; (Jamestown), $2.60; curbing, earth, 8 cts.; concrete, 18 cts. R. W. Henson, Geneva, N. Y., vitrified block (Corning), $2.52; (Kushequa), $2.48; (Cowans), $2.47; (Allentown), $2.32; (Clearfield F. C.), $2.48; curbing, earth, 5 cts.; concrete, 25 cts. On this bid 10 cts. per sq. yd. is to be deducted for gravel concrete. Toledo Construction and Supply Co., Toledo, Ohio, wood block (U. S. creosote), 3.20; Mulderry Bros., New York, N. Y., vitrified block (Corning), $2.71; (Kushequa), $2.62; (Cowans), $2.68; (Clearfield F. C.), $2.69. Without guarantee (Corning), $2.61; (Kushequa), $2.52; (Cowans), $2.58; (Clearfield F. C.), $2.59; curbing, earth, 6 cts.; concrete, 18 cts. Russell Construction Co., 156 Fifth Ave., New York, vitrified block (Corning), $2.79; (Kushequa), $2.68; (Cowans), $2.72; (Allentown), $2.45; (Grafton), $2.72; (Clearfield F. C.), $2.74. Without guarantee, (Corning), $2.67; (Kushequa), $2.56; (Cowans), $2.61; (Allentown), $2.39; (Grafton), $2.60; (Clearfield F. C.), $2.62. These bids are on gravel concrete. For broken stone concrete 16 cts. per sq. yd. is to be added. Eldridge & Grannis, Ossining, N. Y., vitrified block, (Corning), $2.95; (Conneaut), $2.98; (Jamestown), $3.05; (Clearfield F. C.), $2.87. In this bid 2 cts. is to be deducted without the guarantee and for gravel concrete 75 cts. a sq. yd. is deducted. John F. Kerwin & Co., New Brunswick, N. J., vitrified block, (Kushequa), $2.36; (Cowans), $2.42; (Allentown), $2.24; (buck terra cotta), $2.47; (Buffalo Pitts.), $2.37; on wood block, (U. S. creosote), $3.50; (Barber), $3.20. Without guarantee, (Kushequa), $2.36; (Cowans), $2.40; (Allentown), $2.23; (buck terra cotta), $2.45; Buffalo-Pitts.), $2.36; (Barber), $3.00. Curbing, earth, 8 cts.; concrete, 18 cts. These bids are on gravel concrete; for broken stone 14 cts. per sq. yd. is to be added. George F. Snyder & Co., Philadelphia, Pa., vitrified block, (Corning), $2.42; (Kushequa), $2.30; (Cowans), $2.43; (Allentown), $2.15; (Conneaut), $2.43; (Shawmut), $2.55; (Grafton), $2.42; (Patton), $2.27; on wood blocks, (American), $3.95; curbing, earth, 4 cts.; concrete, 9 cts. U. S. Wood Preserving Co., 29 Broadway, New York, N. Y., wood block, (U. S. creosote), $2.90 for 3½-in. blocks; $2.65 for 3-in. blocks. Without guarantee: $2.85 for 3½-in. blocks and $2.60 for 3-in. blocks; curbing, earth, 5 cts.; concrete, 35 cts. Unless otherwise stated these bids are on crushed stone concrete 5 in. thick and a sand curbing of 1½ in. Sand gravel concrete is considered at special prices as bid or to be agreed upon. William C. Burroughs is City Clk.

TRENTON, N. J.—A resolution was adopted on March 17 by the City Council notifying the Barber Asphalt Paving Co. to repair the following streets: State St., from the Delaware and Raritan Canal to Willow St.; South Broad St., from Jennie St. to Liberty St.; Barnes St.; North Clinton St., from the Stone Bridge to the Swamp Angel; Perry St., from the Delaware and Raritan Canal to Warren St.; Broad St., from the Delaware and Raritan Canal to Factory St.; Broad St., from Greenwood Ave. to Factory St.; Broad St., from a point 88 ft. south of State St. to Front St.; Division St., from Roebling Ave. to Hamilton Ave.; Academy St., from Broad St. to Stockton St.; State St., from Clinton St. to Monmouth St.; Willow St., from State St. to the feeder of the Delaware and Raritan Canal; Southard St., from Ewing St. to Escher St.; Academy St., from Stockton St. to the Delaware and Raritan Canal; Montgomery St., from State St. to Academy St.; Carroll St., from State St. to the Belgian block pavement; Ogden St., Hanford Place; Stockton St., from Academy St. to State St.; West Hanover St., from Calhoun St. to Prospect St.; Brunswick Ave., from Warren St. to Bond St.; Broad St., from Jennie St. to the Delaware and Raritan Canal; Warren St., from Front St. to Market St.; Front St., from Montgomery St. to Stockton St.; South Hermitage Ave., from State St. to Cumberland Ave. Harry B. Salter is City Clk.

TRENTON, N. J.—Bids are asked until 8 p. m., April 21, by the Common Council for paving Anderson St., from Kent St. to Hamilton Ave., with sheet asphaltum in a 4-in. concrete base. Harry B. Salter is City Clk.

JERSEY CITY, N. J.—The Street and Water Board has decided to repave Hudson St., from Montgomery St. to Grand St., with wooden blocks.

WILMINGTON, DEL.—Bids are asked until April 21 by Francis A. Price, New Castle County, State Highway Comr., Wilmington, for constructing a macadam road to be known as the Depot Road.

POCOMOKE CITY, MD.—The Senate has passed a bill authorizing the issue of $25,000 bonds for the improvement of streets in Pocomoke City.

TAKOMA, D. C.—The following bids were opened on April 4 by the Quartermaster, Walter Reed Army General Hospital, Takoma, D. C., for macadamizing roads, pavements, concrete walks, etc., on the Walter Reed Army Hospital reservation, D. C.: R. E. Boiseau, Washington, D. C., macadamizing, $1.52 per sq. yd.; with Telford base, $2.45 per sq. yd.; vitrified brick gutters, 45 cts. per lin. ft.; catch basins, $40 each; curbing, 60 cts per lin. ft.; vitrified road crossings, $2 per sq. yd.; sewer pipe drains, $1.20 per lin. ft.; concrete walks, 22 cts. per sq. ft.; Cranford Paving Co., Washington, D. C., macadamizing, $1.65 per sq. yd.; Telford base, $2.57 per sq. yd.; vitrified brick gutters, 60 cts. per lin. ft.; catch basins, $65 each; concrete curbing, 74 cts. per lin. ft.; sewer pipe drains, $1.25 per lin. ft.; vitrified road crossings, $2.70 per sq. yd.; concrete walks, 21⅔ cts. per sq. ft.

LAURENS, S. C.—The city has awarded the contract to the SOUTHERN PAVING CONSTRUCTION CO., Chattanooga, Tenn., at about $25,000, for paving the public square with vitrified brick.

APALACHICOLA, FLA.—We are officially advised that the city contemplates having five miles of shell road constructed. H. W. Morgan is City Engr.

DECATUR, ALA.—Morgan County has voted $260,000 of bonds for construction of macadamized roads. William E. Skeggs is Probate Judge.

ALLIANCE, OHIO.—The City Engineer is preparing plans for paving Columbia St., and for grading various other streets. Bids will soon be asked.

RAVENNA, OHIO.—We are officially advised that Williams, Proctor & Potts, Consulting Engrs., 17 Battery Place, New York, are designing and preparing specifications for 3½ miles of brick paving. Bids will be asked for soon.

INDIANAPOLIS, IND.—The Board of Public Works has ordered plans for the construction of a gravel roadway in Tecumseh St., from Tenth to Pratt St.; brick roadway in alley east of Central Ave., from 14th to 15th St.; cement walks in Senate Ave., from first alley north of 30th St. to 32d St., and brick roadway and stone curb in Hamilton Ave., from Michigan to Tenth St. Blaine H. Miller is City Engr.

DANVILLE, IND.—Petitions have been filed with the County Commissioners for the construction of a gravel road in Liberty Township, known as the McClelland road, and also for a gravel road in Liberty Township, known as the Stout road. William H. Nichols is County Audr.

MUNCIE, IND.—The Board of Public Works has decided to pave Main St. with brick for a distance of seven blocks, and the remainder will be resurfaced with asphalt.

MUNCIE, IND.—Bids are asked by the Commissioners of Delaware County until 10 a. m., May 6, for grading, draining and paving with gravel public highways in Harrison Township. Joseph E. Davis is County Audr.

GREENSBURG, IND.—Bids are asked by the Commissioners of Decatur County until 1 p. m., May 5, for the construction of macadamized roads in Clay and Sandcreek Townships. Frank E. Ryan is County Audr.

VINCENNES, IND.—Bids are asked until 10 a. m., May 5, by the Commissioners of Knox County for the construction of 4,210 ft. of gravel roads in Johnson Township, and until 2 p. m., for the construction of 11,956 ft. of gravel road in Vigo Township. John T. Scott is County Audr.

WASHINGTON, IND.—The Commissioners of Daviess County have awarded a contract to IRA COX for the construction of a gravel road in Bogard Township, at $31,840.

TIPTON, IND.—Bids are asked by the Commissioners of Tipton County until 1 p. m., May 4, for the construction of a gravel road in Cicero Township, known as the McColley road. J. F. Barlow is County Audr.

NOBLESVILLE, IND.—Bids are asked by the Commissioners of Hamilton County until 10 a. m., May 1, for the construction of a gravel road on the line between Hamilton and Tipton Counties. N. W. Cowgill, County Audr.

The County Commissioners have awarded a contract to JOHN HALLORAN, of Indianapolis, Ind., for the construction of two gravel roads, at $11,000.

MENOMINEE, MICH.—Bids will soon be received by John Henes, Park Comr., for the construction of a boulevard.

ROCK ISLAND, ILL.—Bids are asked by the city until April 20 for paving Seventh Ave. with asphalt. Estimated cost $36,753. Wallace Treichler is City Engr.

MARION, ILL.—Bids are asked until April 27 by the Board of Local Improvements for furnishing material and grading and paving with brick the Central Paving District, the work comprising approximately 17,000 sq. yds. brick pavement on a concrete base, 7,250 lin. ft. concrete curb and gutter, and 5,700 cu. yds. excavation.

*COLLINSVILLE, ILL.—Bids are asked by the Board of Local Improvements until 7 p. m., April 22, for grading, curbing and paving in Paving District No. 1, the work embracing approximately 17,880 cu. yds. of excavation, 30,571 lin. ft. of curbing, and 65,729 sq. yds. of paving. A. C. Powell is Engr. Noted last week.

DAVENPORT, IOWA.—The lowest bid opened on March 31 by the Board Public Works for paving Lincoln Ave. with brick was submitted by the Davenport Construction Co., of Davenport, at $1.42 per yd.

MINNEAPOLIS, MINN.—THE KETTLE RIVER QUARRIES CO., Minneapolis, has been awarded the contract by the City Council for 50,000 sq. yds. of 4-in. creosoted wooden paving blocks, at $1.39 per sq. yd. f. o. b. Minneapolis. Andrew Rinker is City Engr.

ATCHISON, KAN.—The City Council has adopted a resolution providing for paving Kearney St., the work to consist of about 8,650 sq. yds. brick paving, 6,326 lin. ft. cement curb., 160 lin. ft. concrete culvert, and 7,000 cu. yds. grading. Chas. A. Hawk is City Clk. Fred Giddings is City Engr.

FORT MEADE, S. DAK.—Bids for constructing road, etc., at Fort Meade, were received by Capt. L. C. Scherer, Q. M., U. S. A., on April 1 as follows: William W. Sabin, Jr., Sturgis, S. Dak., $18,777; Grams & Schummer, Sturgis, S. Dak., $19,600; N. Farlow, Vale, S. Dak., $17,000.

BOZEMAN, MONT.—The city has awarded to JOSEPH BROWN the contract for grading the streets of the Third and Fourth ward improvement districts, at about $36,000.

ST. CHARLES, MO.—BULL, UEBERLE & SON, of St. Charles, have been awarded the contract for 57,396 sq. ft. sidewalks, at 14 cts.; 12,882 lin. ft. curb and gutter, at 53 cts., and 3,511 cu. yds. subgrade, at 27 cts.; total, $15,811.

THEODORE PUNDMAN, of St. Charles, secured the contract for 2,319 cu. yds. of over grade, at 37 cts. per cu. yd. Bids for this work were opened on March 26. H. E. Steinmann is City Engr.

TACOMA, WASH.—THE COAST CONTRACTING CO. has been awarded the contract for grading and sidewalking improvement in District No. 620 at $5,059. Other bidders were: M. J. Hickey, $5,629; Swanson & Peterson, $5,360; Stoll & Sweeney, $5,493; Puget Sound Cement Stone Block Co., $5,573; C. M. Glascoe & Co., $5,525; Chris Nelson, $5,309; W. J. Murphy, $5,397; W. H. Hicker, $5,697; P. J. Concannon, $5,800; Berry & Barnett, $5,484; B. S. Davis, $5,550; B. W. Kibler, $5,530; Lister Construction Co., $5,245; Fred Barth, $5,148; Warter Bros., $5,320; N. A. Jones, $5,333. Frank L. Davis is City Engr.

ALBANY, ORE.—The City Council has passed a resolution providing for paving First St.

SAN BERNARDINO, CAL.—The contract has been awarded to the JAMES McNAIR PAVING CO. for constructing a sidewalk on the east side of E St., south from First St., at 29 cts. per lin. ft. for curb, and 10¾ cts. per sq. ft. for sidewalk.

LOS ANGELES, CAL.—THE FAIRCHILD-GILMORE-WILTON CO. has been awarded the contract by the Board of Public Works for street work on Vermont Ave. H. J. Lelande is City Clk.

HOLLYWOOD, CAL.—The Council has awarded the following contracts: For grading, graveling, etc., Wilcox Ave., to DORAN, BRONSE & PRICE; for grading, graveling, etc., Franklin Ave., to W. E. NICHOLS. George H. Field is City Clk.

SALT LAKE CITY, UTAH.—The Board of Public Works awarded the contract on April 3 to P. J. MORAN for paving First South St., from Second St. to 13th East St., at $225,000 for Utah and $181,000 for California asphalt. Louis C. Kelsey is City Engr.

SALT LAKE CITY, UTAH.—We are officially advised that the following bids have been received by the Board of Public Works for constructing cement sidewalks in Sidewalk Extension No. 127: J. D. Hanley, $23,498; Frank Doran, $30,622; J. P. O'Neill Construction Co., $23,123; S. Birch & Sons Contracting Co., $21,873; Campbell Building Co., $22,747. Louis C. Kelsey is City Engr.

QUEBEC, QUE.—Bids are asked by W. D. Baillairge, City Engr., until April 22, for stone and brick pavements and stone and brick sidewalks.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

ROXBURY, MASS.—Excavations will be begun at once for an addition to the shoe factory of the Thomas G. Plant Co., located at Bickford and Center Sts., Roxbury. The addition will be six stories high above the basement, and will cover an area 169 × 50 ft. The material will be brick. When the addition is completed and ready for use the capacity of the Plant Co. will be increased to 15,000 pairs of shoes a day.

ALBION, R. I.—Work will begin at once on a large brick addition to the cotton plant of the Valley Falls Co. at Albion. This addition is to be five stories high, 106 ft. long and 75 ft. wide. It will provide for 250 looms and 15,000 spindles and will employ 200 persons. The old stone mill which is a part of the plant will be razed to make way for the new building.

HARTFORD, CONN.—It is reported that the Terry Steam Turbine Co. will erect a plant on Windsor St. James Terry is Secy.

ROCHESTER, N. Y.—Walker & Nicholas, Archs., are preparing plans for a factory building for the Rochester Candied Fruit Co., Percy E. Snell, Mgr.

NEW YORK, N. Y.—G. A. Skrzynecki, Arch., 350 Fulton St., Brooklyn, advises us that the Brooklyn Union Gas Co., 180 Remsen St., Brooklyn, has let contract to RICHARD DEEVES & SON, 305 Broadway, New York, for constructing a building for manufacturing and repairing gas meters. Estimated cost, $25,000. The building will be two stories high, 75x100 ft. W. C. Lane will superintend the building.

We are officially advised that contract has been let to the AMSTERDAM BUILDING CO., 43 West 27th St., for constructing a factory building for Charles & Co., 157 East 48th St. Cost, $4,000. Charles W. Romeyn, 55 Broadway, is Arch.

BUFFALO, N. Y.—Plans are being prepared by Esenwein & Johnson, Archs., 777 Elliott Sq., for remodeling a 5-story factory and warehouse for Theodore Hoffellar & Co., 145 Swan St.

Lansing & Beierl, Archs., 371 Pearl St., Buffalo, will prepare plans for a 4 or 5-story factory and warehouse to be built for R. G. Wright & Co., 52 Terrace St.

TIVOLI, N. Y.—The Four Brothers' Axle Grease Co., Hisgen Bros., have had plans drawn for a building, to be added to the plant in Tivoli, which they expect to erect within a month. The building will measure 40 × 184 ft. and will be located west of the present offices and north of the factory which was burned. It will be two stories high. Concrete blocks will be the material used for construction. The foundation, of solid concrete, is finished, but the contract has not yet been let for building. J. W. Obenaus, 119 State St., Albany, is Arch. The building will be used as a cooperage and paint shop on the first floor, and on the second for shipping purposes. The company is arranging facilities for a new station, the sixth to be maintained, at Hartford, Conn. Storage capacity for about 100,000 gallons of oil will be provided. A seventh station will be established in the Adirondacks shortly.

TRENTON, N. J.—The Hemsley Patent Adjustable Top & Tire Bolting Machine Co., Trenton, will erect a plant to manufacture the Hemsley tire bolting machine. Joseph Hemsley is interested.

JERSEY CITY, N. J.—The R. W. Herfurth Co., 39 Cortlandt St., New York, advises us that it has filed a certificate of incorporation. The company has an authorized capital stock of $125,000, and it is chartered to manufacture machinery, tools, automobiles and bicycles. It will take over and use various patents and rights owned by R. W. Herfurth. The incorporators are R. W. Herfurth, George Surand and Benjamin S. Morehouse, all of New York. The company will establish its first main factory in Jersey City, in a building which will be altered at a cost of about $30,000. Garages, with repair facilities, will be established in New York and Hartford, and a garage with a machinery storehouse will be established at Philadelphia. The Jersey City factory will be operated either by gas or electrical power. The company will purchase new machinery. R. W. Herfurth is Pres. and Gen. Mgr.

John T. Rowland and Frank Eurich, Archs., 15 Exchange Pl., are about to let contracts for a 1 and 2-story factory building for Jabez Burns & Sons.

LANCASTER, PA.—Dodge & Day, Engrs., Drexel Bldg., Philadelphia, have prepared plans for 1 and 2-story car repair shops to be built for the Conestoga Traction Co., Lancaster. C. Edgar Titzel, Lancaster, is Mgr.

JOHNSTOWN, PA.—The Johnstown "Democrat" states that W. M. DeFrehn & Sons, chair manufacturers, whose plant is located at Horner and Poplar Sts., will remove their works the coming summer from the central portion of the Seventh Ward to the upper end of Horner St., and will invest about $35,000 in an entirely new plant. The new chair factory, one of the most important of the city's minor industries, will occupy a plot of ground 305x120 ft. lying between the spring and the cement block plants in the Seventh Ward, which are owned by W. M. DeFrehn & Sons.

PITTSBURG, PA.—Thomas H. Scott, Arch., 223 Fourth Ave., has let general contract to McGINNIS BROS., 202 Millvale Ave., for erecting a 1-story addition to laundry building for the Starks Model Laundry. Cost, $11,000.

ROTHSVILLE, PA. — The management of the Rothsville Knitting Mills has let contract to the BROWN ENGINEERING CO., of Reading, Pa., for the mechanical and electrical equipment of a hosiery mill now being erected. The mill will be driven by the under-drive system, will have its own electric lighting plant, and will be quipped throughout with frictionless roller bearings.

NEW CASTLE, PA.—The New Castle Portland Cement Co., New Castle, will ask for bids soon on additional equipment for its new plant. The contracts for that part of the equipment on which bids are now in will be let in about a week. Electricity will be used for operation and bids are wanted on that equipment also.

It is stated that Paul McGregor has secured an option on the 42 acres of the Sword farm at New Castle Junction and is planning to establish works for the manufacture of electric locomotives, electric dray wagons, auto-cars, etc. It is reported that about $1,000,000 will be expended on the works, including the machinery. The shops will give employment to from 600 to 1,000 men.

MAHONINGTOWN (New Castle post-office), PA.—An addition is to be built to the plant of the New Castle Powder Works, west of Mahoningtown, in the early summer. The new building is to be a storage house where high explosives will be kept before shipment.

ALBION, PA.—The Walton Cement Stone Co., of Albion, Pa., will equip a plant to manufacture building blocks, porch columns, etc. W. H. Walton is Pres. and C. H. Smith, Secy. and Treas. This company was lately organized.

LYNDORA, PA.—The Forged Steel Wheel Co., a branch of the Standard Steel Car Co., both of Butler, Pa., has increased its capital stock from $500,000 to $1,750,000, and will spend about $500,000 this summer in making additions and improvements at the present plant at Lyndora, a short distance south of Butler. The present plant was built for experimental purposes only, in order to test the reliability and use of forged steel car wheels. None of the equipment has been purchased. The general offices of the company are in the Frick Bldg., Pittsburg, Pa. J. M. Hansen is Pres. and A. N. Fay, Purchasing Agt., Pittsburg.

FREDERICKSBURG, VA.—It is stated that the Washington Woolen Mills will build additions to the present plant and will double the present output.

CHARLESTON, W. VA.—The Kanawha Chemical Engine Mfg. Co., Ellis Crawford, Pres., Charleston, W. Va., will erect a plant in South Charleston, with buildings of concrete. The main structure will be 50 × 100 ft., blacksmith shop, 25 × 30 ft., and paint shop 40x60 ft., one story high. The company manufactures portable and stationary fire engines and chemicals for fireproofing.

WENDELL, N. C.—Press reports state that R. B. Whitley of Wendell will construct a cotton mill here and is having plans prepared.

LEXINGTON, N. C.—The management of the Yadkin Knitting Mills, Lexington, N. C., will rebuild the plant, which was destroyed by fire several weeks ago at a loss of $25,000.

FOUNTAIN INN, S. C.—An enlargement is to be made in the plant of the Fountain Inn Mfg. Co., of Fountain Inn, and the company has decided to increase the capital stock from $200,000 to $300,000 for this purpose. An additional building will be erected and its equipment will be 5,000 spindles and 300 looms, increasing the total number of machines to 15,000 spindles and 460 looms. Cotton damasks, ginghams and print cloth will be manufactured. Besides this enlargement, there will be improvements made in the mill village and electricity will be used at the plant. J. D. Woodside is Pres.

ROME, GA.—The management of the Rome Hosiery Mills is contemplating erecting an additional plant.

COLUMBUS, GA.—The Eagle & Phenix Mills, Columbus, Ga., are planning the expenditure of $12,000 for improvements to the present steam power plant. Immediate attention will be given to this improvement, the directors having authorized an appropriation of the money at once. The company operates 67,000 spindles and 1,900 looms, manufacturing colored cottons, ball thread, etc.

ATLANTA, GA.—The following bids were received by the Superintendent of Prisons and Prisoners, Dept. of Justice, Washington, D. C., on April 2 for installing a refrigerating plant at the U. S. penitentiary, Atlanta, Ga.: Vilter Mfg. Co., Milwaukee, Wis., $4,580; time, 90 days. Tait-Nordmeyer Co., St. Louis, Mo.; time, 65 days. Ruemmell-Dawley Mfg. Co., 3900 Chouteau Ave., St. Louis, Mo., $5,800; time, 90 days. Creamery Package Mfg. Co., Chicago, Ill., $5,420; time, 60 days. York Mfg. Co., York, Pa., $5,000; time, 100 days.

ATLANTA, GA.—The Murray Co., Williams St., Dallas, Tex., will build a plant at Atlanta for manufacturing Murray system of cotton-ginning machinery. The new plant will be a duplicate of the Dallas plant. A. A. Vardell is company's Engr.; John H. McDonough is Pres., both of Dallas, Tex.

FORT DADE (Egmont post-office), FLA.—Bids are asked until May 15 by the Constructing Quartermaster for installing an ice and distilling plant at this post.

GAYLESVILLE, ALA.—A company which intends to build a cotton yarn mill at Gaylesville, Ala., has been organized. It will be known as the Gaylesville Cotton Mills. The officers are as follows: J. Robb Henderson, Pres.; A. B. Russell, Vice-Pres.; A. V. Hudson, R. L. McWhorter and J. E. Chesnut, Directors. The company is capitalized at $100,000 and intends to build a 5,000-spindle plant for manufacturing cotton yarns. No plans for buildings or specifications for machinery have been prepared. The company is arranging to secure an architect and engineer in charge.

JOHNSON CITY, TENN.—The Model Mill Co., lately incorporated with $100,000 capital to establish mill with daily capacity of 200 barrels wheat flour and 2,400 bushels corn, has completed plans for construction and will soon commence building. A. L. Bauhard, Bristol, Va.-Tenn., is Pres., and W. H. Small, Evansville, Ind., is interested.

LOUISVILLE, KY.—It is reported that Armour & Co., 205 La Salle St., Chicago, Ill., has decided to improve the plant of the Kentucky Packing & Provision Co. at the Central Stock Yards, which was recently taken over by Armour & Co. William A. Calloway is Local Mgr.

The Louisville Brick & Tile Co. probably will rebuild the plant recently burned at a loss of about $25,000.

SANDUSKY, OHIO.—The Osborn Engineering Co., Osborn Bldg., Cleveland, Ohio, has let general contract to George Doerzbach, Sandusky, for a 1-story foundry building for the Bay View Foundry Co., Sandusky. Cost, $20,000.

CINCINNATI, OHIO.—A bleachery will be constructed by the Joseph Joseph & Bros. Co., 1242 Harrison St., on the south side of Queen City Ave. This improvement will cost not less than $100,000. The structure will be two stories, of brick with a frontage of 200 ft. by 100 ft. in depth. Cotton is to be cleaned and bleached in the building. The machinery will have a capacity of 50 tons per day. Directly in the rear of the building will be erected an immense power plant and other additions to the grounds in general. It is stated the construction work will be done by the owners.

SALEM, OHIO.—The American Case & Register Co., of Alliance, will erect a manufacturing plant at Salem. The new buildings will be constructed of concrete building blocks. The factory building will be a 1-story structure 500 ft. long and 200 ft. wide, and the office building will be a 3-story structure 100 ft. square. The plans for this plant were prepared by Chapman & Chapman, Archs., Citizen's Bldg., and the contract for the masonry has been awarded to the CUYAHOGA CONCRETE STONE CO.

COLUMBUS, OHIO.—D. Riebel & Sons, New First National Bank Bldg., have extended the time for receiving bids for the construction of four connected factory buildings for the Columbus Lithograph Co. Cost, $40,000. Noted March 26.

CINCINNATI, OHIO.—A building for manufacturing purposes will be erected by the M. B. Farrin Lumber Co., Station Ave., on the south side of Spring Grove Ave., near Clifton Ave., at a cost of about $35,000. Plans for the improvement have been prepared by Joseph G. Steinkamp & Bros., Archs., Mercantile Bldg., and bids will be taken immediately. The building will be 160x172x211 ft., irregular in shape, and of two stories. The plant will occupy the site of the old White Monument Co.'s grounds.

The Cincinnati Galvanizing Co., West McMicken Ave., will build an addition. The company has had plans prepared by C. F. Glaser, Arch., for a 1-story building, 40x78 ft. This will be erected adjoining the present plant.

MOUNT GILEAD, OHIO.—J. H. Kelly, proprietor of the Kelly Machine Works, in Mount Gilead, proposes to make improvements in his plant this coming summer. A building 50 × 60 ft. is to be built near or adjoining the present building.

ELKHART, IND.—A. H. Ellwood & Co., Archs., have completed plans for a 4-story factory to be built for the Sterling Hudson Whip Co.

GRAND RAPIDS, MICH.—Contract has been awarded to M. D. MORGAN, 80 Watkins Ave., by the Frost-Watson Co., Murray Bldg., for a 2-story flour mill to cost $12,000.

DETROIT, MICH.—John G. Rumney, Genl. Mgr. of the Detroit Steel Products Co., let general contract to the RUSSEL WHEEL & FOUNDRY CO. for a 3-story factory building to cost $30,000.

BELOIT, WIS.—Irving F. Hand, Arch., Goodwin Block, has prepared plans and will receive bids about May 1, it is stated, for a 2-story brick and concrete-block foundry building, 70x80 ft., for the Baldwin Iron Co.

MASON CITY, IOWA.—E. R. Bogardus, Arch., 219 North Main St., has prepared plans for a 2-story and basement binding plant for Ferguson & Chassell, to cost $15,000.

WEST DULUTH (Duluth post-office), MINN.—The Zenith Furnace Co. will expend about $125,000 for improvements to its plant here.

DULUTH, MINN.—plans have been submitted to the Building Inspector for approval for a 7-story building which the Northern Cold Storage Co. proposes to erect at a cost of $50,000.

ST. LOUIS, MO.—The Foundry Investment Co. has awarded contract to REINSCHMIDT-HAENNI CONSTRUCTION CO., Frisco Bldg., St. Louis, for erection of an addition to foundry, which will be one story high, 160x 300 ft., of brick and stone construction. Cost, about $40,000. Widmann & Walsh, Wainwright Bldg., are Archs.

The Duplex Adding Machine Co., Holland Bldg., recently increased its capital stock to $1,000,000 and will erect a plant. Herbert Elder is Pres., A. J. Meier, Treas., John J. Marks Secy.

COLORADO, TEX.—B. N. Garrett, Pres. of the West Colorado Land Co., Colorado, Tex., will let contract for cotton mill machinery, consisting of 5,000 spindles and 150 looms, for sheetings. He wishes to communicate with engineer and architect and contractor for buildings.

BLAINE, WASH.—The Morrison Mill Co. will erect a saw and shingle mill here soon. It is estimated that the mill, machinery and buildings will cost $75,000.

PORTLAND, ORE.—The Portland "Journal" states that the Pacific Coast Silica & Clay Co. proposes to establish a plant in or near Portland for manufacturing terra-cotta and fire clay products. The company has secured about 700 acres of land for this purpose, near Hood River. The clays will be barged to Portland. George W. Kummer, Gen. Mgr. of the company, states that the plant will be ready for operation within nine months.

SAN BERNARDINO, CAL.—Articles of incorporation for Victor Portland Cement Co. have been filed with County Clerk. The capital stock is $3,200,000. Rock quarries from which cement will be manufactured are located eight miles northeast of Victor, and a part of plan of corporation is building a broad-gage railway to cover this distance for the purpose of hauling rock to mill. Capacity of plant will be 8,000 bbls. a day, which is on basis of about 900,000 bbls. a year. Electric power, developed from steam, will be used to run all machinery, and probably to operate the railway from the quarry to mill. It is stated that the company will issue bonds to the extent of $1,500,000, with which to build and equip plant. It is understood that the company has secured water rights on Mojave River. The incorporators are L. Blandenhorn, of Pasadena; Aman Moore, J. A. Schuyler, F. T. Griffith, of Los Angeles, etc.

COEUR D'ALENE, IDAHO.—Hoopes & Wilson general contractors, expect to equip their shop, during the next 90 days, with woodworking machinery, adapted to the manufacture of office fixtures, furniture and interior trim. They will want band saw, pony and buzz planers, cut-off saw, moulding and sash machines, etc.

MONTREAL, QUE.—The Marvel Street Hydrant & Novelty Co., Lindsay Bldg., Montreal, will build a machine shop and foundry to manufacture a non-freezing hydrant.

HAMILTON, ONT.—The Directors of the Royal Distillery Co. contemplate erecting a 5-story brick plant at King, William and Wellington Sts. to cost about $500,000.

WINDSOR, ONT.—J. M. Watt, Bogue Bldg., has let general contract to U. & A. JACQUES for constructing a 3-story concrete canning factory and storehouse, 40x50 ft., and boiler house, 30x30 ft., at Stoney Pointe, for the Stoney Pointe Canning Co., Stoney Pointe.

NEW WESTMINSTER, B. C.—The British Columbia Electric Ry. Co. awarded the contract for the proposed extension of its New Westminster carshops to W. W. FORRESTER. The entire cost of the work will be in the neighborhood of $20,000. R. H. Sperling, Vancouver, is Gen. Mgr.; D. J. McQuarrie, New Westminster, is Local Mgr.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

TILE DRAIN.—Hampton, Iowa.—Bids are asked until April 24 for a tile drain in Marion Township. Frank G. Luke, County Audr.

*WHARF.—Portland, Me.—Bids are asked until noon, May 14, by Maj. George A. Zinn, Corps Engrs., U. S. A., for constructing a concrete wharf.

CRUSHED LIMESTONE.—Minneapolis, Minn.—Bids are asked until April 24 by L. A. Lydiard, City Clerk, for 15,000 cu. yds. of crushed limestone.

BRICK.—Atlanta, Ga.—Bids are asked until April 20 by W. J. Campbell, Clk. of Council, for hard burnt bricks per M., delivered. H. L. Collier, Comr. Pub. Wks.

*PIER.—Holland, Mich.—Bids are asked by Col. M. B. Adams, Corps Engrs., U. S. A., Grand Rapids, until 3 p. m., May 13, for repairing South Pier at Holland, Mich.

BARGE.—Victoria, B. C.—The Victoria Terminal Co. has awarded contract to SLOAN BROS., Seattle, Wash., for building a transfer barge which will carry nine loaded cars.

DITCH.—Rensselaer, Ind.—Bids are asked until April 18 at the office of the County Surveyor for constructing the Geo. A. Cover Ditch, Cause No. 92, of the Jaspe Circuit.

*STONE-CRUSHER PLANT, ETC.—West Point, N. Y.—Bids are asked until noon, May 6, by the Quartermaster, West Point, for a stone-crusher plant, steam engine and boiler.

*DREDGING.—Bridgeport, Conn.—Bids are asked until noon, May 13, by Maj. Harry Taylor, Corps Engrs., U. S. A., New London, Conn., for dredging in Bridgeport Harbor, Conn.

BROKEN STONE.—New York, N. Y.—Bids are asked by Allen N. Spooner, Comr. of Docks, until noon, April 23, for furnishing and delivering about 3,000 cu. yds. of broken stone.

SHELL.—Washington, D. C.—The Chief of Army Ordnance, Navy Dept., has awarded contract to the TREDEGAR CO., Richmond, Va., for furnishing 800 12-in. cast-iron shell, at $28,10 each.

DREDGING.—Wilmington, Del.—Bids are asked until 11 a. m., May 4, by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., Wilmington, for dredging for improvement of Tuckerton Creek, N. J.

DRAINAGE SYSTEM.—Beaumont, Tex.—Jefferson County has voted $90,000 of bonds for proposed drainage system. B. F. Quicksall is County Clk.; H. Falkenburg, Port Arthur, Tex., is Engr.

*DREDGING, EXCAVATION.—Chicago, Ill.—Bids are asked until 10 a. m., May 13, by Col. W. H. Bixby, Corps Engrs., U. S. A., for dredging and rock excavation in the Chicago River and Harbor.

*DOCK, DREDGING.—Chicago, Ill.—Bids are asked by Col. W. H. Bixby, Corps Engrs., U. S. A., until 10 a. m., May 9, for dock construction in the Chicago River, and for dredging in the Calumet River, Ill.

IRON FENCE.—Columbus, Ohio.—Bids are asked by the Board of Public Service until April 24 for furnishing and erecting 1,490 lin. ft. of iron fence around the settling basins at the water purification works.

*EARTH EMBANKMENT.—Pottsville, Pa.—Bids are asked until 6 p. m., April 25, by the Pottsville Water Co. for the completion of the earth embankment of the Wolf Creek reservoir. W. D. Pollard is Gen. Mgr.

CEMENT, RIPRAP.—New York, N. Y.—Bids are asked until noon, April 27, by Allen N. Spooner, Comr. of Docks, for furnishing and delivering cement, and for furnishing, delivering and putting in place riprap stone.

DRAIN.—Rockwell City, Iowa.—Bids are asked by the Board Supervisors for constructing a tile drain in Cedar Township, known as Drainage Dist. No. 74, requiring 10,200 ft. tile. B. E. Stonebraker, County Audr.

FIRE ALARM.—New York, N. Y.—Bids are asked until 11 a. m., April 27, by C. B. J. Snyder, Supt. Bldgs., Dept. of Education, for installing fire alarm telegraph systems in Public Schools Nos. 2, 3, 16, (old) 22, 24 and 30, Boro. of Richmond.

*AMMUNITION HOISTS.—Salem, N. J.—Bids are asked until 11 a. m., April 30, by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., Wilmington, Del., for furnishing and delivering two ammunition hoists at Fort Mott, N. J. (Date was omitted last week.)

*DREDGING.—New York, N. Y.—One bid was received on April 7 by Col. D. W. Lockwood, Corps Engrs., U. S. A., for dredging in Shrewsbury River, N. J.: John & Joseph McSpirit, 118 Wayne St., Jersey City, N. J., at 28 cts. a cu. yd., scow measurement.

OIL-TANKS, ETC.—San Francisco, Cal.—Bids are asked until May 1 by Geo. McK. Williamson, Constr. Q. M., U. S. A., Fort Mason, San Francisco, Cal., for furnishing material and constructing two oil-tanks and foundations, electric motor, pump and pipe lines for Army General Hospital, Presidio of San Francisco.

DITCHES.—St. Paul, [illegible]n.—The State Drainage Board, S. G. [illegible]son, Secy., St. Paul, will soon take b[illegible] on three state ditches—in Steele County, [illegible] Owatonna; in Kandiyohi County and [illegible] Nicollet County. Estimated cost, $130,000. [illegible] A. Ralph, Engr.

*IRON FENCE.—Fort [illegible]rio, N. Y.—Bids are asked until 11 a. m., [illegible] 20, by Lieut. A. R. Williams, Const. Q. [illegible] Oswego, N. Y., for constructing an iron [illegible] wire fence at this post. Plans, specific[illegible], etc., are on file at office of Engin[illegible] News, New York.

FIRE EXTINGUISHER[illegible] New York, N. Y.—Bids are asked by C. [illegible] Snyder, Supt. School Bldgs., Bd. Educa[illegible] until 11 a. m., April 20, for fire extingu[illegible] apparatus to be furnished to various [illegible] in the Boroughs of Manhattan, Th[illegible] Bronx, Brooklyn and Richmond.

*DREDGE MACHINERY[illegible] Cincinnati, Ohio.—Bids were received on Ap[illegible] by Lieut.-Col. Wm. T. Rossell, Corps E[illegible] U. S. A., for furnishing and installing [illegible], machinery, etc., on steel dredge. Con[illegible] was awarded to ELLICOTT MACHINE [illegible]O., Bush and Seventh Sts., Baltimore, M[illegible] at $59,925.

*DITCH.—Brainerd, Minn.—Bids were received by J. F. Smart, Cou[illegible] Audr., March 18, for digging Ditch No. [illegible] Total length, 15 miles. Estimated quant[illegible] 79,000 cu yds. excavation. Contract has [illegible]n awarded to HACKMAN & WAHL, of [illegible] Cloud, Minn., at $10,603. List of b[illegible] noted on March 26.

*WALLS.—Buffalo, N. Y.—Bids were received on March 14 by Col. [illegible] M. Adams, Corps Engrs., U. S. A., for [illegible]structing concrete walls for Ship Lock, [illegible]k Rock Harbor, Buffalo. Contract has [illegible]n awarded to MacARTHUR BROS. CO., 1[illegible] Pine St., New York, at $823,304. Itemized [illegible]ds, etc., were given in issue of March 19.

DITCH.—Yankton, S. Dak.—Bids are asked until 10 a. m., April 22, by David M. Finnegan, County Audr., Yankton, for the excavation and construction of the Volin lateral ditch No. 1, in Yankton County. Maps, profiles and specifications are on file in the auditor's office of Yankton County, where additional information can be obtained.

DREDGING PLANT, ETC.—Moline, Ill.—Bids were received by Maj. C. S. Riche, Corps Engrs., U. S. A., on April 4, for hire and operation of a dredging plant, to consist of a dipper-dredge, tender and dump-scows, for use at Moline, Ill. Contract was awarded to T. B. DAVIS, Rock Island, Ill., at $12.50 per hour. Estimated cost, $25,000.

BRASS AND IRON CASTINGS.—Washington, D. C.—Bids are asked by Thos. J. Sullivan, Dir. Bureau Engraving and Printing, Treasury Dept., until 2 p. m., May 4, to furnish during the fiscal year beginning July 1, 1908, brass castings and iron castings. Awards will be made only to established manufacturers of or dealers in the articles.

DREDGING.—New York, N. Y.—Bids were received on April 10 by Allen N. Spooner, Comr. Docks (Contract No. 1115), for furnishing all the labor and materials required for dredging about 200,000 cu. yds. on the North River, Boro. of Manhattan. Contract was awarded to HENRY DU BOIS SONS CO., 17 State St., New York, at 14.8 cts. a cu. yd.

*LIGHT-HOUSE, ETC.—Wilmington, Del.—Eight bids were received on April 6 by the Light-House Engr., Wilmington, for erecting the light-house, store-house, etc., at Bellevue Range Front Light-Station, Del. The lowest bid was submitted by Edward Fay & Son, 2666 Richmond St., Philadelphia, at $2,800. It has been recommended for acceptance.

AMBULANCE.—Hartford, Conn.—Three bids were received on April 6 by James P. Berry, Secy. Bd. Contract and Supply, for the manufacture of a motor ambulance for the use of the city. The car is to be of the gasoline type, with 4-cylinder water cooled motor and to develop 30 HP. The Miner Garage (Knox), Hartford, was lowest bidder, at $3,000.

TENTS.—Washington, D. C.—Bids were received as follows by the Quartermaster, U. S. Marine Corps, Washington, D. C., for furnishing tents. The lowest bid was that of F. R. Thorns, 112 Duane St., New York, at about $11,500. Bids were also received from Chas. F. Eareslssout, 34 East Pratt St., Baltimore, and Rehen & Co., 141 Fulton St., New York.

SEAWALL.—Newport, R. I.—Bids are asked until 10 a. m., May 11, by Capt. Willis C. Metcalf, Q. M., U. S. A., in charge of construction, 209 Thames St., Newport, for the construction of a seawall, removal of face cover, grading, filling, sodding, etc., at Fort Adams, R. I. Plans, specifications, etc., are on file at office of Engineering News, New York.

WHARF.—Fort Totten, N. Y.—Bids are asked until April 29, by Lieut. Chas. A. Clark, C. A. C. Q. M., Fort Totten, for constructing an addition to wharf at this post. Plans, specifications, etc., are on file at office of Engineering News, New York. Extra specifications, forms for proposals, and instructions to bidders may be obtained on application by bidders at Fort Totten.

BULKHEAD, PIER.—Edgewater, N. J.—Bids are asked by Geo. A. Carleton, Mayor, until 8 p. m., April 21, for construction of a pile crib bulkhead; also for a pile crib bulkhead and pier. Blank forms for bids and information for bidders may be obtained at the office of the Borough Clerk, Boro. of Edgewater, or at the office of Watson G. Clark, Boro. Engr., 1123 Broadway, New York City.

WHARF.—Campbellton, N. B.—Bids are asked by Department Public Works, Ottawa, Ont., until 4 p. m., April 27, for the construction of an extension to the wharf at Campbellton, Restigouche County, N. B., according to plans and specifications to be seen at the offices of E. T. P. Shewen, Resident Engr., St. John, N. B.; Geoffrey Stead, Res. Engr., Chatham, N. B., on application to the Postmaster at Campbellton, N. B., and at the Department of Public Works, Ottawa.

•DREDGING.—New York, N. Y.—Bids were received by Col. F. W. Lockwood, Corps Engrs., U. S. A., 39 Whitehall St., April 10 for dredging in Raritan Bay, N. J., 80,000 cu. yds. Following are the bids: R. G. Packard, 130 Pearl St., New York, 28½ cts. per cu. yd.; W. H. Beard Dredging Co., 21 State St., 25 cts.; P. Sanford Ross, Inc., 227 Washington St., Jersey City, N. J., 20.9 cts.

•LEDGE ROCK REMOVAL.—Newport, R. I.—Bids were received as follows on April 9 by Maj. Harry Taylor, Corps Engrs., U. S. A., for removal of ledge rock from (A) Newport Harbor and (B) Sakonnet Harbor, R. I.: Roy H. Beattie, Fall River, Mass., (A) $9,850, (B) $8,470 and $7,600; J. K. Sullivan, Newport, R. I., (A) $6,450, (B) $9,950 and $9,250; Johnston & Virden, Lewes, Del., (A) $6,200, (B) $8,250 and $8,250 (this bid contained the proviso that bidders be awarded both works).

•NAVIGATION PASS.—Wheeling, W. Va.—Bids were received on March 27 by Capt. F. C. Boggs, Corps Engrs., U. S. A., for constructing 700 ft. of navigation pass for Dam No. 8, Ohio River. The lowest bid was that of the T. A. Gillespie Co., of Pittsburg, Pa., at $308,619, as noted last week. Itemized bids are given in this issue under Contract Prices.

Bids were received on April 7 by Capt. F. C. Boggs, Corps Engrs., U. S. A., for constructing 700 ft. of navigation pass for Dam No. 11, Ohio River. Details and itemized prices are given in this issue under Contract Prices.

BULKHEAD.—Newport, Ore.—Bids were received by A. H. Hampton, Recdr., on March 28 for construction of a cement and wood bulkhead at foot of Fall St., to be 3 ft. wide at base, 4 ft. high above beach level; bedrock to be leveled off and wall cemented at least 3 ins. below surface of bedrock; top of wall to be 18 ins. wide, with 1-in. drift bolts in cement every 3 ft., to which is fastened a wooden superstructure 50 ins. high and 8 ins. wide, well tied to the bank. It is to be built of new material 2 × 8 ins., with ten degrees slant toward the street, lower part of the wall to be of good cement or concrete one part cement and remainder one part sand and two parts crushed rock. Length of wall to be 78 ft. Contract on April 6 to J. W. FLOWERS, Newport, Ore.

STEEL PLATE.—Duluth, Minn.—Bids were received as follows by Maj. Graham D. Fitch, Corps Engrs., U. S. A., Duluth, on April 9 for furnishing about 633,516 lbs. of steel plate at Superior, Wis.: Marshall-Wells Hardware Co., Duluth, Minn., 2.465 cts.; National Iron Co., Duluth, 2.2925 cts.; Belmont Iron Works, Philadelphia, Pa., 2.15 cts.; American Bridge Co. of New York, Minneapolis, Minn., 2.59 cts.; Penn Bridge Co., Beaver Falls, Pa., 2.36 cts.; Joseph Cody & Sons, Peoria, Ill., 2.35 cts.; Jones & Laughlin Steel Co., Pittsburg, Pa., 2.1575 cts.; G. & W. Mfg. Co., 26 Cortlandt St., New York, N. Y., 2.099 cts. (recommended for acceptance); Scully Steel & Iron Co., Chicago, Ill., 2.3 cts.; MacKinnon Boiler & Machine Co., Bay City, Mich., 2.33 cts.; Cambria Steel Co., Philadelphia, Pa., 2.205 cts.

•DREDGING, DREDGING PLANT.—Duluth, Minn.—Bids were received as follows by Maj. Graham D. Fitch, Corps Engrs., U. S. A., on April 6 for dredging and hire of dredging plant at Superior Entry, Wis. Amount proposed to be expended on this work, about $30,000: (A) For dredging 100,000 cu. yds., more or less, from trench, per cu. yd., measured in place; (B) for hire of dipper dredge with two dump scows, a steam tug, with crews and equipment, per hour: Great Lakes Dredge & Dock Co., Chicago, Ill., (A) 37 cts., (B) $25; Northern Dredge & Dock Co., Duluth, Minn., (A) 42 cts., (B) $24; Duluth-Superior Dredging Co., Duluth, (A) 38 cts., (B) $35. Prices were considered too high and were rejected. Bids were received by letter as follows on April 8 for the same work: (A) For hire of dipper dredge (200 cu. yds. capacity) with two dump scows, a steam tug, all with crews and equipment, per hour of actual time worked; (B) same for hydraulic suction dredge, 300 cu. yds. capacity, per hour: Great Lakes Dredge & Dock Co., (A) $25, (B) $35 (recommended for acceptance); Northern Dredge & Dock Co., Duluth, (A) $24; Duluth-Superior Dredging Co., Duluth, (A) $35, (B) $36.50; Zenith Dredge Co., Duluth, (A) $28.50.

U. S. POSSESSIONS AND CUBA.

•CEMENT.—Honolulu, T. H.—Bids are asked until noon, April 30, by Capt. C. W. Otwell, Corps Engrs., U. S. A., 1840 Polk St., San Francisco, Cal., for furnishing cement.

JACKS, ETC.—Panama.—Bids are asked until April 27 by Lieut.-Col. H. F. Hodges, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., to furnish jacks, car replacers, globe valves, carborundum wheels, faucets, etc., as per circular 435.

RAILS, CRANE.—Panama.—The Isthmian Canal Commission, Washington, D. C., has awarded contract for furnishing 2,031 gross tons of 70-lb. steel rails to R. C. HOFFMAN CO., Baltimore, Md., at $62,961, 50 days, and 100,000 lbs. of track bolts to the PITTSBURG FORGE & IRON CO., Pittsburg, Pa., at $2,430; also one locomotive coaling crane, 15-ton capacity, maximum radius, 30 ft., minimum 12 ft., to the INDUSTRIAL IRON WORKS, Bay City, Mich., at $6,535.

TIES.—Panama.—Bids were received as follows March 30 at the office of the Isthmian Canal Commission, Washington, D. C., for furnishing 22,000 hewn cypress or red wood cross ties, 7 × 9 ins. × 9 ft.: G. Elias & Bros., Buffalo, $20,900 and $17,600, 120 days; S. E. Naylor & Co., Gulfport, Miss., $19,800, 120 days; D. L. Gillespie & Co., 501 Wood St., Pittsburg, $17,380, 60 days; AMERICAN TILE & TIMBER CO., 11 Broadway, New York, $18,480, $16,258, 89 days (awarded contract); George S. Baxter & Co., 15 William St., New York, $17,490, 60 days; W. R. Grace & Co., 1 Hanover Sq., New York, $36,300, 180 days.

LUMBER. — Panama. — Requisitions have been received as follows from the Isthmus by the Isthmian Canal Commission for furnishing a quantity of lumber for the construction of bridges. Bids will be asked in a few days: Stringers—400 pieces, 8 ins. × 16 ins. 32 ft., 136,533 ft. B. M.; 1,600 pieces, 8 × 16 ins., 28 ft., 477,866 ft. B. M.

Caps—800 pieces, 12 ins. × 12 ins. 12 ft., 115,200 ft. B. M.; 100 pieces, 12 ins. × 12 ins. 12 ft., 19,200 ft. B. M.; 100 pieces, 12 ins. × 12 ins. 18 ft., 21,600 ft. B. M.; 100 pieces, 12 ins. × 12 ins. 20 ft., 24,000 ft. B. M.

Ties—8,000 pieces, 6 in. × 8 in. 9 ft., 288,000 ft. B. M.

Braces—2,000 pieces, 3 in. × 10 in. 18 ft., 90,000 ft. B. M.; 1,500 pieces 3 in. × 10 in. 20 ft., 75,000 ft. B. M.; 1,500 pieces, 3 × 10 in. 22 ft., 82,500 ft. B. M.; 1,000 pieces, 3 in. × 10 in. 24 ft., 60,000 ft. B. M.

Piles—400 lin. ft., 30-ft. lengths; 350 lin. ft., 35-ft. lengths; 700 lin. ft., 40-ft. lengths; 660 lin. ft. 45-ft. lengths; 400 lin. ft., 50-ft. lengths; 1,000 lin. ft., 55-ft. lengths; 800 lin. ft. 60-ft. lengths; 1,200 lin. ft. 65-ft. lengths; 700 lin. ft. 70-ft. lengths, 300 lin. ft. 75-ft. lengths; 100 lin. ft. 80-ft. lengths.

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—

Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, 2.25 to 2.45 cts.; bolts, square nuts, 2.65 to 2.75 cts: bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—

New York—at mill—New standard sections, $28; standard, second quality, $27 to $28; light sections, 12 to 14 lbs., $34 to $36; old iron rails, f. o. b. New York, $17 to $18; old steel rails, short lengths, $11 to $11.50; old steel rails, re-rolling lengths, $11 to $12.

Pittsburg—Standard sections, at mill, $28; standard, second quality, $27 to $28; light rails, 25 to 45-lb., $28; 20-lb., $29; 16-lb., $38; 12-lb., $32; 10-lb., $34, and 8-lb., $38.

STRUCTURAL MATERIALS—

New York—at tidewater—Beams, channels, angles and zees, 1.86 cts.; tees, 1.90 cts. On beams, 18 to 24-in., and angles over 6-in., the extra is 10 cts. Material cut to length is sold from stock at 2¼ cts. to 2½ cts.

Pittsburg—Beams and channels up to 15-in., 1.70 cts.; over 15-in., 1.80 cts; angles, 3 × 2 × ¼-in. thick, up to 6 × 6-in., 1.70 cts.; 8 × 8 and 7 × 3½-in., 1.80 cts.; zees, 3-in. and larger, 1.70 cts; tees, 3-in. and larger, 1.75 cts.; bulb angles and deck beams, 2 cts. Under the Steel Bar card angles, channels and tees under 3-in., are 1.70 cts., base, for Bessemer and open hearth, subject to half extras on the Standard Steel Bar card.

PLATES AND SHEETS—

New York—at tidewater—The following prices are based on carload lots, with 5 cts. extra for less than carload lots. Terms, net cash in 30 days:

Tank plates, 6¼ to 14 ins. wide	$1.86 to $1.96
14½ to 100 ins. wide	1.96 to 2.00
Flange and boiler test	1.96 to 2.00
Marine	2.26 to 2.36
Locomotive fire-box	2.75 to 3.50
Still bottoms	2.14½ to 2.29½

Note—Plates more than 100 ins. in width, 5 cts. extra per 100 lbs.; plates 3-16 in. in thickness, $2 extra; Nos. 7 and 8 gage, $3 extra; No. 9, $5 extra.

Pittsburg—tank, ¼-in. thick and heavier, 1.70 to 1.80 cts.; black sheets, 27-gage, 2.50 to 2.55 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—

Pig Iron:

At New York—tidewater—

Northern—	
No. 1X foundry	$18.75 to $19.75
No. 2X foundry	18.25 to 19.25
No. 2 plain	17.75 to 18.75
Gray forge	17.25 to 18.25
Basic	17.25 to 17.50
Virginia—	
No. 1 foundry	17.50 to 18.00
No. 2 foundry	17.00 to 17.50
Basic	16.25 to 16.50
Southern—	
No. 1 foundry	17.25 to 17.75
No. 2 foundry	16.75 to 17.25
No. 3 foundry	16.25 to 16.75
No. 4 foundry	15.75 to 16.25
No. 1 soft	17.25 to 17.75
No. 2 soft	16.75 to 17.25
Gray forge	15.50 to 16.50
Mottled	15.00 to 16.00
At Pittsburg, f. o. b.—	
No. 2 foundry	$17.00 to $18.00
Gray forge	15.50 to 16.50
Bessemer Iron	17.50 to 18.25
Ferromanganese	45.00 to 46.00
At Chicago—	
Lake Superior charcoal	20.50 to 21.00
Northern—	
Coke foundry, No 1	17.85 to 18.35
Coke foundry, No. 2	17.35 to 17.85
Coke foundry, No 3	16.85 to 17.35
Scotch, No. 1	18.35 to 18.85
Southern—	
Coke, No. 1	16.85 to 17.35
Coke, No. 2	16.35 to 16.85
Coke, No. 3	15.85 to 16.35
Coke, No. 4	15.35 to 15.85
Coke, No. 1 soft	16.85 to 17.35
Coke, No. 2 soft	16.35 to 16.85
Gray Forge	14.35 to 14.85
Mottled	14.10 to 14.60
Malleable Bessemer	17.50 to 18.00
Standard Bessemer	19.40 to 19.90
Jackson County—	
and Kentucky Silvery, 6%	17.90 to 18.40
and Kentucky Silvery, 8%	19.90 to 20.40
and Kentucky Silvery, 10%	21.90 to 22.40

Cast-iron Pipe:

New York—Carload lots, net tons, 6-in., at tidewater, $25 to $25.50.

Chicago—4-in., water pipe, $30; 6-in. to 12-in., $29; over 16-in., $28, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Copper:

Lake, 12.75 to 12.87½ cts.; electrolytic, 12.62½ to 12.75 cts.; casting, 12.37½ to 12.50 cts.

Lead: New York, spot, 3.97½ to 3.62½ cts.

Spelter: New York, spot, 4.60 to 4.65 cts.

Tin: New York, spot, 31.12½ to 31.37½ cts.

CONTRACT PRICES.

[Where • precedes items under Contract Prices the work was advertised in Engineering News.]

•NAVIGATION PASS.—Wheeling, W. Va.—Bids were received as follows, in detail, on March 27 by Capt. F. C. Boggs, Corps Engrs., U. S. A., for constructing 700 ft. of navigation pass for Dam No. 8, Ohio River—(A) Sheridan-Kirk Contract Co., Cincinnati, Ohio; (B) the Dravo Contracting Co., Lewis Block, Pittsburg, Pa.; (C) the T. A. Gillespie Co., Westinghouse Bldg., Pittsburg:

	(A)	(B)	(C)
25,000 cu. yds. excavation	$1.50	$1.00	$1.20
1,920 cu. yds. fill	.50	.55	.90
1,030 cu. yds. base for concrete	3.00	4.25	4.20
11,200 cu. yds. riprap	4.00	4.25	4.20
25,900 lin. ft. round piles	.70	.75	.70
237,000 ft. B. M. sheet piles, 12-in., per M	80.00	120.00	105.00
56,000 ft. B. M. sheet piles, 4-in., per M	100.00	120.00	105.00
295,000 ft. B. M. common timber, per M	70.00	70.00	80.00
150,000 ft. B. M. deck timber, per M	70.00	75.00	90.00
158,000 ft. B. M. oak timber, per M	90.00	100.00	120.00
6,030 cu. yds. concrete	9.00	9.00	8.60
1,470 lin. ft. pipe, 3-in	1.00	1.15	1.00
1,480 lin. ft. pipe, 1½-in	.70	.40	1.00
3 drip pockets	6.50	15.00	30.00
73,200 lbs. structural steel	.08	.07	.08
52,600 lbs. reinforcing bars	.06	.05	.06
433,000 lbs. forgings	.09	.10	.06
98,000 lbs. bolts, etc	.065	.09	.07
246,000 lbs. iron castings	.06	.06	.07
82,500 lbs. steel castings	.125	.09	.08
Total	$310,630	$318,975	$308,619

•NAVIGATION PASS.—Wheeling, W. Va.—Bids were received as follows on April 7 by Capt. F. C. Boggs, Corps Engrs., U. S. A., for constructing 700 ft. of navigation pass for Dam No. 11, Ohio River. The bidders were: (A) the T. A. Gillespie Co., Pittsburg; (B) the Dravo Contracting Co., Pittsburg:

	(A)	(B)
18,100 cu. yds. excavation	$1.20	$1.20
1,620 cu. yds. fill	.90	.60
1,030 cu. yds. base for concrete	3.20	4.50
11,200 cu. yds. riprap	3.20	4.50
31,200 lin. ft. round piles	.70	.80
247,000 ft. B. M. sheet piles, 12-in., per M	100.00	125.00
56,000 ft. B. M. sheet piles, 4-in., per M	105.00	125.00
295,000 ft. B. M. common timber, per M	80.00	75.00
150,000 ft. B. M. deck timber, per M	90.00	80.00
158,000 ft. B. M. oak timber, per M	120.00	100.00
6,030 cu. yds. concrete	7.10	9.00
1,470 lin. ft. pipe, 3-in	1.00	1.20
1,480 lin. ft. pipe, 1½-in	1.00	.45
3 drip pockets	30.00	15.00
73,200 lbs. structural steel	.08	.08
52,600 lbs. reinforcing bars	.06	.06
433,000 lbs. forgings	.06	.12
98,000 lbs. bolts, etc	.07	.10
246,000 lbs. iron castings	.06	.055
82,500 lbs. steel castings	.08	.10
Total	$279,859	$339,784

CIVIL SERVICE EXAMINATIONS.

LABORATORY AID AND ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on May 6 to fill a vacancy in the position of laboratory aid and engineer, $730 a year, in the Forest Service, Dept. of Agriculture, and vacancies requiring similar qualifications as they may occur in that service. Age limit, 18 years. Application Form 1312.

FIELD ASSISTANT IN BIONOMIC INVESTIGATIONS.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on May 6, to fill vacancies as they may occur in the position of field assistant in bionomic investigation, Dept. of Agriculture, at salaries ranging from $900 to $1,200 a year. Age limit, 18 to 30 years. Application Form 1312.

JUNIOR CHEMIST.—Washington, D. C.—Announcement is made by the U. S. Civil Service Commission of an examination to be held on May 6-7, to fill a number of vacancies in the position of junior chemist in the Technologic Branch of the Geological Survey, at salaries ranging from $1,020 to $1,380 a year, and vacancies requiring similar qualifications as they may occur. Age limit, 21 years. Application Form 1312.

LABORATORY ASSISTANT IN WOOD CHEMISTRY.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on May 6, to fill two vacancies in the position of laboratory assistant in wood chemistry; at $900 a year each, Forest Service, Dept. of Agriculture, and vacancies requiring similar qualifications as they may occur in that service. Age limit, 18 years. Application Form 1312.

JUNIOR ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on May 6-7, to fill from ten to twenty vacancies in the position of junior engineer in the Technologic Branch of the Geological Survey, at salaries ranging from $1,020 to $1,380 a year, and vacancies requiring similar qualifications as they may occur. Temporary appointments to the position of engineering aid or apprentice may also be made from the eligible list resulting from this examination, at salaries ranging from $720 to $960 a year. Age limit, 21 years. Application Form 1312.

CHIEF ENGINEER.—Philippines. — Announcement is made by the U. S. Civil Service Commission of an examination to be held on May 6-7, to fill two vacancies in the position of chief engineer, third class, salary $115 a month each, in the Coast and Geodetic Survey, for service in the Philippines, and vacancies requiring similar qualifications as they may occur in the Coast and Geodetic Survey. The department states that the appointees to the specific positions mentioned will, upon their arrival at Manila, be promoted to the position of chief engineer, first-class, at $140 a month. Age limit, 25 to 45 years. Application Form 304.

SECOND-CLASS (OR ASSISTANT) STEAM ENGINEER.—Washington, D. C.—Announcement is made of an examination to be held by the U. S. Civil Service Commission on May 6, to fill a vacancy in the position of assistant engineer, $900 a year, Office of the Attorney-General, Washington, D. C., a vacancy in the position of engineer, $1,020 a year, Freedmen's Hospital, Washington, D. C., and vacancies requiring similar qualifications as they may occur. Applicants who have had experience in plumbing should so state in their applications, as such experience is required for the position in Freedmen's Hospital. Age limit, 20 years. Application Form, 1093.

ENGINEER, DRAFTSMEN, ETC.—Albany, N. Y.—The State Civil Service Commission wil hold examinations on May 9 for the following positions: Assistant Civil Engineer, $5 to $6 a day; Bridge Designer, $1,500 to $2,100; Bridge Draftsman, $1,200 to $1,500; Health Officer, Town of Brasher, St. Lawrence County; Highway Inspector, $3.50 to $4.50 a day; Leveler, $4.50 to $5 a day; Mechanical Draftsman, $900 to $1,500. The last day for filing applications for these postions is May 2. Full information and application forms for any of these examinations may be obtained by addressing the Chief Examiner of the Commission at Albany. Charles S. Fowler, Chief Examiner.

ELECTRICIAN.—Columbus Barracks, Ohio.—An examination will be held by the U. S. Civil Service Commission on May 13, to fill a vacancy in the position of electrician, $1,000 a year, Quartermaster's Department at Large, Columbus Barracks, Ohio, and vacancies requiring similar qualifications as they may occur in any branch of the service. The duties of the specific position to be filled require thorough knowledge of and experience in house wiring, installation of electric lighting fixtures, and construction of pole lines; ability to read and test watt meters and to care for and make slight repairs to transformers and arc lamps. Age limit, 20 years. Application Form 1052.

MAGNETIC OBSERVER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on April 29, to fill at least three vacancies in the position of magnetic observer (temporary) in the Coast and Geodetic Survey, and vacancies requiring similar qualifications as they may occur. The salaries will range from $60 to $75 a month, according to the character of the work and the qualifications of the applicants and in exceptional cases where the person employed has had repeated experience in magnetic work, the salary may reach $100 a month. Appointment to permanent positions are made from the examination for laboratory assistant in the Bureau of Standards. Age limit, 20 to 45 years. Application Form 1312.

INDUSTRIAL NOTES.

THE NATIONAL BITUMEN CO., of Indianapolis, Ind., manufacturers of coal tar products, has recently enlarged its works by adding a distilling plant, which will greatly increase its capacity.

THE ENGINEERING & COMBUSTION CO., of New York City, has removed its offices to 143 Liberty St. The company acts as general sales agents for the Albany Industrial Co., manufacturers of the Chapman Fuel Economizer System.

THE WESTINGHOUSE ELECTRIC & MFG. CO.—A modified financial plan for terminating the receivership of the Westinghouse Electric & Mfg. Co. and financing the company, has been devised by the Committee of Merchandise Creditors and approved by the Directors, which does away with the issue of mortgage bonds and reduces the amount of assenting stock to which stockholders must subscribe from $7,000,000 to $6,000,000. Under the new plan $10,000,000 of stock will be issued, but of this amount $4,000,000 will be taken care of by the merchandise creditors. The original Reorganization Committee, of which James N. Jarvie is Chn., has approved the plan, and in the confident belief that subscriptions to the entire $10,000,000 of new stock at par will be forthcoming by June 1, the Jarvie committee has extended the time for depositing obligations and claims to May 15.

In order to facilitate the work of obtaining subscriptions, a Stockholders' Committee has been formed, to co-operate with the other committees. The composition of the Stockholders' Commitee is as follows: Charles Francis Adams, Boston; Charles J. Canda, New York; Alvin W. Krech, New York; George W. Guthrie, Mayor of Pittsburg, and George T. Oliver, Pittsburg. The Merchandise Creditors' Committee, which formulated the new plan, represents more than one-half of the total of $4,250,000 owing this class of creditors. These creditors signified their willingness to take assenting stock to the extent of $4,000,000 under the proviso that there would be no issue of mortgage bonds. The new plan leaves the convertible bonds and the collateral notes undisturbed. The subscriptions to be taken to $6,000,000 of the new stock by the stockholders are to extend over a period of ten months. The first installment is to be payable 25 per cent. June 1, 20 per cent. each on Aug. 1, Nov. 1 and Jan. 1, and the final 15 per cent. on April 1, 1909. Both the Merchandise Creditors' Committee and the Readjustment Committee are to be represented on the Directorate of the company under the new plan.

TRADE PUBLICATIONS.

GUARD RAIL BRACE.—Otto Gas Engine Works, 357 Dearborn St., Chicago. Paper; 6 × 9 ins.; pp. 4; illustrated.

The Mansfield brace comprises a base-plate or tie-plate extending under both rails, a spacing block between the rails, and a rail brace secured to the tie-plate by a bolt.

STEEL TIES; RAIL JOINTS.—Carnegie Steel Co., Pittsburg, Pa. Paper; 8 × 5½ ins.; pp. 58; illustrated.

The Carnegie or Buhrer tie is of I-beam section, made in various sizes. Numerous half-tone engravings show its application on steam, electric and street railways and there are lists of railways using it. The Duquesne rail joint has angle bars with very wide flanges at the middle, these flanges bent down to lie under the rail at an angle of about 45°.

CONCRETE MIXERS.—Foote Concrete Machinery Co., 184 La Salle St., Chicago, Paper; 9¾ × 6½ ins.; pp. 72; illustrated.

The Foote mixer is of the continuous type, having a mixing trough in which is a shaft fitted with arms or blades. Automatic feed hoppers are used. The machines are shown arranged in various ways, and in use on various classes of work. Numerous testimonials for users of these machines are also given.

GASOLINE CAR FOR TRACK WORK.—Tool & Railway Specialty Mfg. Co., Atchison, Kan. Paper; 9 × 5¾ ins.; pp. 14; illustrated.

The "Autrakar" is a self-propelled section car having flexible or telescopic shafts for operating spike-hole augers, screw-spike wrenches, rail drills, etc.

RAILWAY COALING STATIONS.—The Otto Gas Engine Works, 357 Dearborn St., Chicago. Paper; 7 × 10 ins.; pp. 30; illustrated.

Some of these coaling stations have elevated pockets which are filled from coal cars hauled up an incline approach by gasoline hoisting engines. Others have buckets operated vertically. Scales for hopper bins, and special forms of coal chutes are also shown.

LIGHTNING ARRESTERS AND SIGNAL APPARATUS.—Railroad Supply Co., Bedford Building, Chicago. Paper; 6 × 9 ins.; pp. 32; illustrated.

This is a catalog and price list of lightning arresters and their accessories, for both direct and alternating current. It also includes batteries, battery boxes, rail and switch insulation, rail bonding, and other appliances and supplies used in connection with signal work.

INDUSTRIAL CARS AND RAILWAYS.—The Atlas Car & Mfg. Co., Cleveland, O. Paper; 8¾ × 6 ins.; pp. 72; illustrated. Also separate bulletins, 8¾ × 6 ins.

The main catalog relates to portable track, with switches and crossings, turntables, etc., the rails being attached to steel ties. There is also a great variety of designs of steel cars for mines, brick and cement-block plants, brick yards, cement works, furnace and metallurgical plants, factories, plantations, etc. The bulletins relate to mine cars, dryer cars, electric motor dump cars, drying cylinders for sand-lime brick plants, self-oiling wheels, and other specialties.

POWER HOUSE PIPING.—York Engineering Co., York, Pa. Catalog A. Paper; 6¼ × 4½ ins.; pp. 61; illustrated.

This catalog applies particularly to the power house piping and fittings and other mill supplies manufactured by the York Engineering Co.

IRON POLES AND CAR FORGINGS.—Pittsburg Pole and Forge Co., Pittsburg, Pa. Paper; 6 × 9 ins.; pp. 35; illustrated.

Trolley and other tubular iron poles, insulator pins, rail benders, car forgings and various other street railway iron necessities are included in this list.

STEEL SHEETING.—George W. Jackson, Inc., 169-179 W. Jackson Boulevard, Chicago, Ill. Paper; 9¾ × 7 ins.; pp. 69; illustrated.

This catalog shows many views of work on which the Jackson patented steel sheet pile has been used with great success.

IRON FENCES.—Anchor Post Iron Works, 41 Park Row, New York City. Catalog No. 35. Paper; 8½ × 5½ ins.; pp. 24; illustrated.

This catalog gives a listed and priced description of various iron fences, gate-ways, tennis-court guards, etc., made by the company.

REINFORCED CONCRETE.—W. W. Conard, 829 Swede St., Norristown, Pa. Paper; 6 × 9¼ ins.; pp. 31; illustrated.

Mr. Conard has a patented system of reinforced-concrete construction in which the main reinforcement consists of structural steel erected as an independent structure afterwards to be covered with the concrete, the whole structure acting as a unit under the entire load.

FIREPROOF CONSTRUCTION. — National Fireproofing Co., Chicago, Ill. 7½ × 9 ins.; pp. 63; illustrated.

Under the title of "Fireproof Houses of Terra Cotta Hollow Tile and How to Build Them" this pamphlet quite fully describes a style of construction which should be cheap enough to use in residence construction and at the same time admirably suited to resist fire. Details of construction are quite fully described, both by tests and figures, and there are included many photographs of some artistic effects in country and small city residences which have been built according to this system.

For other Proposal Advertisements see pages 43, 44, 46, 47, 48, of Advertisements and Construction News page 134.

POWER PLANT.

White Plains, N. Y.

Office, Board of Supervisors, White Plains, N. Y., by the Board of Supervisors, addressed to Chauncey T. Secor, Chairman of the New Court-House Committee, at the rooms of the Board of Supervisors, of Westchester County, at White Plains, New York.

DEPRESSED BOILER AND POWER-HOUSE, WESTCHESTER COUNTY COURT-HOUSE.

Sealed proposals will be received until ten o'clock on the 1st day of May, 1908, and then opened, for all material and labor required for the construction of a depressed boiler and power-house for the Westchester County Court-House at White Plains, according to the plans and under the superintendence of Lord & Hewlett, architects, 345 Fifth Avenue, New York City, at whose office plans and specifications may be obtained. Each contractor shall accompany his bid with certified check for $5,000. Certified check shall be made payable to the County Treasurer as a guarantee that if the contract is awarded to him he will enter into contract approved by the County Attorney of Westchester County and accepted by the Board for the work covered by said bid.

Each bid shall be accompanied with bond of surety company legally doing business in New York State, bond to be equal to the amount of the bid and made payable to the County Treasurer of Westchester County, which bid shall guarantee the faithful performance of the work covered by the contract. The Board reserves the right to reject any or all bids.

BOILERS, STEAM APPURTENANCES, ETC., CENTRAL POWER PLANT, WESTCHESTER COUNTY COURT-HOUSE.

Sealed proposals will be received at this office until ten o'clock on the 1st day of May, 1908, and then opened, for all material and labor required for the construction of the central power plant and for steam and return connections between the power plant and new Supreme Court and Hall of Records, and for temporary steam and return connections to the present buildings of the Westchester County Court-House, White Plains, according to the plans and specifications prepared by Alfred R. Wolff, Consulting Engineer, Fulton Building, New York City, and Lord & Hewlett, architects, 345 Fifth Avenue, New York City, at which latter office plans and specifications may be obtained. Each contractor shall accompany his bid with a certified check for $2,000. Certified check shall be made payable to the County Treasurer as a guarantee that if the contract is awarded to him he will enter into contract approved by the County Attorney of Westchester County, and accepted by the Board for the work covered by said bid.

Each bid shall be accompanied with bond of surety company legally doing business in New York State, bond to be equal to the amount of the bid and made payable to the County Treasurer of Westchester County, which bid shall guarantee the faithful performance of the work covered by the contract. The Board reserves the right to reject any or all bids.

Dated April 13, 1908.

CHAUNCEY T. SECOR, Chairman;
FARRINGTON M. THOMPSON,
Secretary;
CHARLES D. MILLARD,
JOHN H. McARDLE,
BENJ. I. TAYLOR,
EDWARD P. BARRETT,
JOHN F. CODY,
FRANK S. REYNOLDS,
HENRY C. MERRITT,
Committee on New Court-House.
LORD & HEWLETT, Architects,
345 Fifth Avenue, New York. 16-2t

MACADAM ROAD.

River Vale, N. J., April 9, 1908.

Sealed proposals for the macadamizing of River Vale Ave., Demarest Ave., Cedar Ave. and Piermont Ave., in the Township of River Vale, a distance of 4.97 miles, will be received by the Township Committee of the Township of River Vale, Bergen County, N. J., and will be publicly opened at 3 o'clock p. m., on May 7, 1908, at the regular place of meeting.

Plans and specifications may be examined at the office of the State Commissioner of Public Roads, State House, Trenton, N. J., or at the office of H. G. Hering, Jr., Engineer, Hillsdale, N. J. Each bidder must enclose with his bid a certified check for one thousand dollars ($1,000.00), payable to the order of the Township of River Vale as a guarantee that if the said work is awarded to him he will enter into a contract with the said Township Committee for the due and faithful performance of the work, which contract, together with the bond of the successful bidder, must be executed within ten days from the time of the formal awarding of the contract by the said Township Committee, the said bond to be conditioned for the faithful performance of the work in strict conformity with the plans and specifications, and in the penal sum of at least the total estimated cost of the work.

Both contract and bond must meet the approval of the State Commissioner of Public Roads and the Township Committee of the Township of River Vale.

The Township Committee reserves' the right to reject any or all bids.

GEORGE H. SEAMAN,
Chairman.
Attest:
J. W. B. DUNCAN,
Clerk. 16-3t

U. S. ENGINEER OFFICE, 537 Congress Street, Portland, Me., April 14, 1908.—Sealed proposals for concrete wharf will be received at this office until 12 m., May 14, 1908, and then publicly opened. Information on application. GEO. A. ZINN, Maj. Engrs. 16-4t

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U. S. ENGINEER OFFICE, Chicago, Ill., April 13, 1908.—Sealed proposals for dredging and rock excavation in Chicago River and Harbor, Illinois, will be received here until 10 a. m., May 13, 1908, and then publicly opened. Information on application. W. H. BIXBY, Colonel Engineers. 16-4t

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WEST POINT, N. Y., April 13, 1908. —Sealed proposals, in triplicate, subject to the usual conditions, will be received at this office until 12 o'clock, noon, May 6, 1908, for Stone Crusher Plant, Steam Engine and Boiler. The United States reserves the right to accept or reject any or all proposals, or any part thereof. Forms and specifications furnished upon application. Address QUARTERMASTER, West Point, N. Y. 16-3t

Situations Wanted

INSTRUMENTMAN, age 23, wants position in any line; experienced in mining, railroad and structural work; location no object. References. Address G. A. J., 359 E. 22d St., Brooklyn, N. Y. 16-1t

FOR SALE

EXCEPTIONAL OPPORTUNITY FOR SALE
AT VERY LOW PRICE
18 "Koppel" Steel Double Side Dump Cars
54 cu. ft. capacity, 36" gage. Have never been used. Address "G. A. 16," Engineering News, New York. 16-2t

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WANTED TO RENT
6 or 8 Ton Steam Road Roller
for Macadam.
Address:
O. E. NEWMAN,
Manassas, Va. 16-2t

AN OPPORTUNITY SELDOM OFFERED
INDUSTRIAL PLANTS
to locate on Long Island. Address
A. L. LANGDON,
Traffic Manager L. I. R. R. Co.,
263 5th Ave., New York City.

ESTATE OWNING PATENT FOR
Improved Steel Reinforcing Bar
for concrete, already highly approved, will sell or lease. Address "H. A. 16," Engineering News, New York. 16-1t

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A Permanent Position is Open with a Large Industrial Concern in Norway

For a turbine engineer who possesses thorough experience in design, construction and erection of large high-pressure plants. The engineer will be required to direct the construction and erection of the turbine and piping plant of a power-plant, now building, of 140,000 HP. Only gentlemen of first-class education and long experience will be considered. Address "H. L.," 3210 Rudolf Mosse, Hamburg. 16-1t

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BARGAINS for Active Buyers

1¼-yd. Vulcan Traction Shovel; 2 sets engines. $2,850.00.
1¼-yd. Vulcan Traction Shovel; 3 sets engines. $3,250.00.
1½-yd. Vulcan "Giant D"; 3 sets engines. $3,500.00.
1¾-yd. Vulcan "Giant D"; 3 sets engines. $2,850.00.
1½-yd. Marion "Style A"; 1 set engines. $1,800.00.
1½-yd. Bucyrus (Crane Type); 1 set engines. $1,800.00.
1½-yd. Bucyrus (Crane Type); 2 sets engines. $2,250.00.
2-yd. Vulcan "Class E"; 3 sets engines. $3,800.00.
1¼-yd. Marion "Model 20"; 3 sets engines. $4,300.00.
2½-yd. Marion "Model 60"; 3 sets engines. $7,400.00.

Other shovel bargains—have 50 to select from:
10 × 16" Baldwin, 36" gage Saddle Tank, built 1906; used 3 months. $1,950.
9 × 14" Vulcan 36" gage Saddle Tank, built 1902. $1,320.00.
9 × 14" Vulcan 36" gage Saddle Tank, built 1904. $1,350.00.
36" gage Western and Oliver modern dump cars, 1½ to 4-yd. capacity.

JOHN B. WATSON
Drexel Building, Philadelphia, Pa.
'Most everything for the Contractor. 16-1t